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MICHIGAN STATISTICAL ABSTRACT

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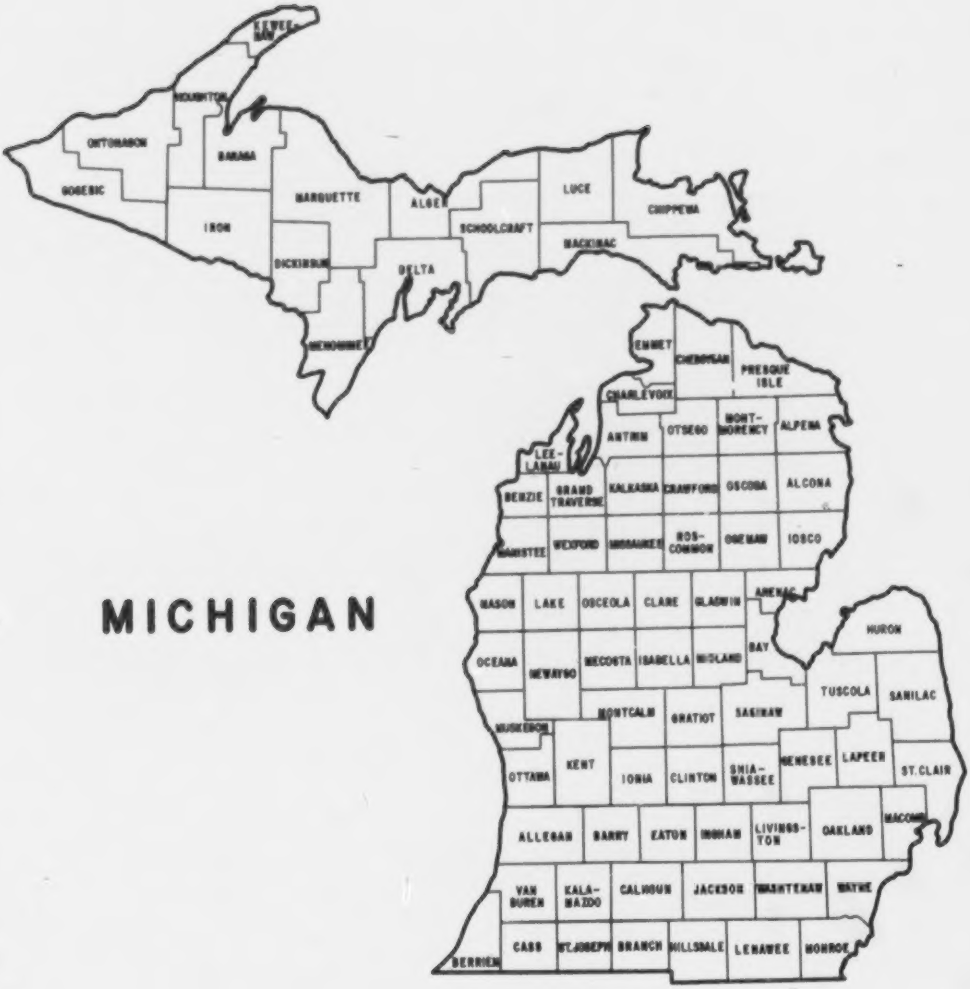
MICHIGAN
KEWEE-NAW
HOUGHTON
ONTONAGON
BARAGA
GOGEBIC
MARQUETTE
ALGER
LUCE
CHIPPEWA
IRON
SCHOOLCRAFT
MACKINAC
DICKINSON
DELTA
MENOMINEE
EMMET
CHEBOYGAN
PRESQUE ISLE
CHARLEVOIX
ANTRIM
OTSEGO
MONT-MORENCY
ALPENA
LEE-LANAU
BENZIE
GRAND TRAVERSE
KALKASKA
CRAWFORD
OSCODA
ALCONA
MANISTEE
WEXFORD
MISSAUKEE
ROS-COMMON
OGEMAW
IOSCO
MASON
LAKE
OSCEOLA
CLARE
GLADWIN
ARENAC
HURON
OCEANA
NEWAYGO
MECOSTA
ISABELLA
MIDLAND
BAY
TUSCOLA
SANILAC
MONTCALM
GRATIOT
SAGINAW
MUSKEGON
OTTAWA
KENT
IONIA
CLINTON
SHIA-WASSEE
GENESEE
LAPEER
ST.CLAIR
ALLEGAN
BARRY
EATON
INGHAM
LIVINGS-TON
OAKLAND
MACOMB
VAN BUREN
KALA-MAZOO
CALHOUN
JACKSON
WASHTENAW
WAYNE
BERRIEN
CASS
ST.JOSEPH
BRANCH
HILLSDALE
LENAWEE
MONROE

PREFACE

Gail Guip, secretary at the Bureau of Business Research managed the production of this edition. Her contribution is gratefully acknowledged. She also typed tables and the narrative. Jackie Sage and Libby Lagoe also typed tables. Data were collected by Mona Chatterji and Gary Shields. We all proofread.

A host of individuals in government and private organizations contributed time and material. The Regional Economic Measurement Division of the Bureau of Economic Analysis, Washington, D.C., is the source on income data that appear in Chapter VI and several other chapters. The office of Systems and Computer Services in Michigan's Department of Commerce actually prepared camera ready copy from BEA tapes. The Michigan Employment Security Commission's Research and Statistics Division in Detroit was most helpful in securing many of the statistics that appear in Chapter V. The Office of Vital and Health Statistics, Michigan Department of Public Health, prepared much of the material for Chapter III. The Geological Survey Division, Michigan Department of Natural Resources prepared updated material for Chapter XIII. The Michigan Department of Transportation prepared tables for Chapter XVII. Other cooperating state agencies include the following departments: Management and budget, Mental Health, Social Services, Education, State Treasury, State Police, Licensing Regulation, Commerce, and Agriculture.

Those who find this *Abstract* useful are advised to consult the *Economic Report of the Governor*, which also appears annually. It offers a good description of the state's economy as well as the most recent economic forecast. The Senate Fiscal Agency also publishes documents relating to the fiscal and economic conditions of our state.

At the University of Michigan each November, since 1952, the Department of Economics has sponsored the Annual Conference on the Economic Outlook. The data base which supports their national and Michigan forecast is substantial, and in a computer format. The Institute of Labor and Industrial Relations forecasts regional economics. A book by Harold T. Shapiro and George Fulton, *A Regional Econometric Forecasting System: Major Economic Areas in Michigan*, available from The University of Michigan Press.

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I. EARLY MICHIGAN CENSUSES

The material in this chapter has been assembled to provide a sketch of Michigan in its earlier days. Tables I-1 through I-6 are from early censuses. Following Table I-6 is a narrative taken from History of the United States, Illustrated. Missing pages make identification difficult, but from promotional materials pasted on inside covers, it appears that the book was published by Lee and Shepard of Boston. Since the section on Michigan mentions the recent removal of the state capital from Detroit to Lansing, the volume probably was published circa 1848.

Another item of interest to history buffs is the official version of the Toledo War which appears in Chapter IX. A list of Michigan governors and territorial officials also appears in Chapter IX.

Automotive historians may appreciate the material presented in the introduction to Chapter XVI.

Number	List of Tables	Page
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TABLE I-1. AGGREGATE AMOUNT OF EACH DESCRIPTION OF PERSONS WITHIN THE TERRITORY OF MICHIGAN: AS REPORTED IN 1810

	Names of the Respective Civil Divisions				
	Detroit	Erie	Huron	Michilimackinac	Total
Free White Males					
Under ten years of age	393	251	97	59	800
Of ten and under sixteen	168	106	56	21	351
Of sixteen and under twenty-six, including heads of families	231	108	62	182	583
Of twenty-six and under forty-five, including heads of families	291	197	68	207	763
Of forty-five and upwards, including heads of families	171	88	37	44	340
Free White Females					
Under ten years of age	252	243	114	31	640
Of ten and under sixteen	179	98	36	19	332
Of sixteen and under twenty-six, including heads of families	190	105	55	18	368
Of twenty-six and under forty-five, including heads of families	160	97	42	12	311
Of forty-five and upwards, including heads of families	79	34	11	6	130
All other free persons, except Indians not taxed	96	9	0	15	120
Slaves	17	4	2	1	24
Totals in each civil division	2,227	1,340	580	615	4,762

The number of persons within my division, consisting of the Territory of Michigan, appears in a schedule hereto annexed, subscribed by me this eighteenth day of February, A.D. 1811. Reuben Attwater, Secretary.

TABLE I-3. TOTAL POPULATION OF MICHIGAN TERRITORY, BY COUNTY: CENSUS 1830

County	Aggregate	Free	Slaves	Federal or representative
Wayne	6,781	6,781		6,781
Monroe	3,187	3,187		3,187
Oakland	4,911	4,911	1	4,911
Linerve	1,491	1,491		1,491
McComb	2,413	2,413		2,413
St. Clair	1,114	1,114		1,114
Washtenaw	4,042	4,042		4,042
St. Joseph	1,313	1,313		1,313
Cass	919	919		919
Berrien	325	325		325
VanBuren	5	5		5
Michilimacknaw	877	877		877
Brown	1,356	1,354	2	1,354
Crawford	692	686	6	689
Chippewa	626	626		626
Iowa	1,587	1,564	23	1,576
Totals	31,639	31,607	32	31,625

Of which are--
Free--white males - 18,168
white females - 13,178

Total whites - 31,346

Colored males - 159
Colored females - 102

Total free colored - 261

Total free 31,607

Slaves - Males - 22
Females - 10

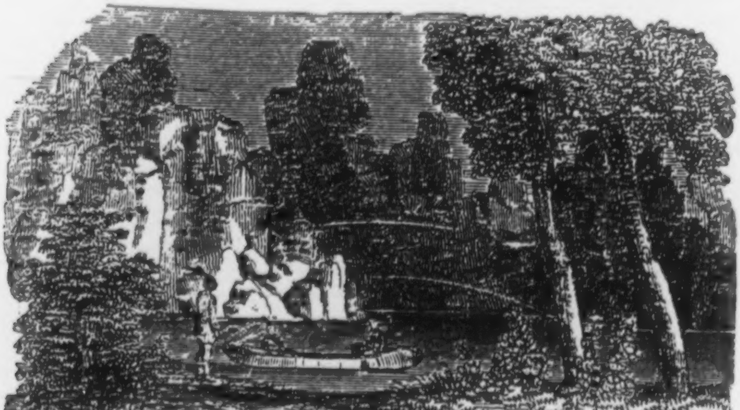
Total slaves - 32

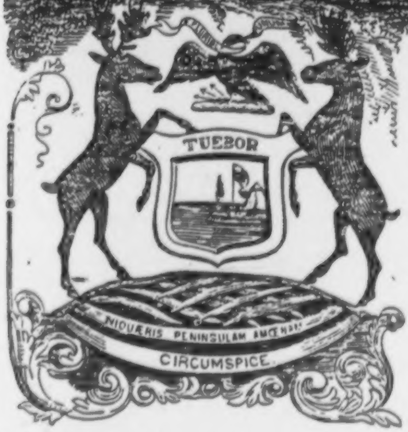
SOURCE: U.S. Census Office, Abstract of the Fifth Census, Prepared from the corrected returns of the Secretary of State to Congress, by the Clerk of the House of Representatives, Washington, 1832.

TABLE I-4. THE AGGREGATE AMOUNT OF PERSONS WITHIN THE DISTRICT OF MICHIGAN, BY COUNTIES AND PRINCIPAL TOWNS, CENSUS 1840

County	Population	County	Population
Allegan	1,783	Lapeer	4,265
Barry	1,078	Lenawee	17,889
Berrien	5,011	Livingston	7,430
Branch	5,715	Michilimackinac	923
Calhoun	10,599	Macomb	9,716
Cass	5,710	Monroe	9,922
Chippewa	534	Oakland	23,646
Clinton	1,614	Ottowa	208
Eaton	2,379	Oceana	496
Genesee	4,268	Saginaw	892
Hillsdale	7,240	Shiawassee	2,103
Ingham	2,498	St. Clair	4,606
Ionia	1,923	St. Joseph	7,068
Jackson	13,130	Van Buren	1,910
Kalamazoo	7,380	Washtenaw	23,571
Kent	2,587	Wayne	24,173
		Total	212,267
	Principal Towns		
Detroit	9,102	Monroe	1,703

SOURCE: U.S. Census Office, Abstract of the Returns of the Sixth Census, prepared from the corrected returns of the Secretary of State to Congress, by the Clerk of the House of Representatives, Washington, 1842.





MICHIGAN.

This state consists of two great peninsulas, and presents a form and position unlike any other state in the Union. It might be compared with Maryland and Virginia, in respect to the separation of its parts by water; but it is different from them in lying far in the interior, and in having for its principal boundaries the borders of three great lakes. It has Lake Superior on the north, with its outlet and the Saut de Sainte Marie on the northeast; Lake Huron on the east, with the west end of Lake Erie on the southeast, with Lake Clair and the outlet of Huron, Ohio and Indiana on the south; Lake Michigan and Wisconsin on the west.

The advantages offered to commerce and trade by the natural features of the country, and to internal improvements, are equalled only by the agricultural facilities and mineral wealth of some parts of the territory. There are several good harbors along the borders of the lakes and their coves, which also abound with fish; copper mines, of great extent and richness, abound along the shores, on Lakes Huron and Superior; and railroads have already been constructed nearly across the isthmus of the grand peninsula.

This grand peninsula is divided into two inclined planes, by a continuation of the ridge of land which separates the water of the Wabash and the great Miami and Maumee—one of them sloping toward Lake Huron, drained by the rivers Raisin, Huron, Erie, Rouge, Huron of St. Clair, Bell, Black, Saginaw, Thunder, Cheboiang, &c.; and the other sloping toward Lake Michigan, and crossed by

TABLE I-2. AGGREGATE AMOUNT OF EACH DESCRIPTION OF PERSONS WITHIN THE TERRITORY OF MICHIGAN IN 1820

	Counties								
	Wayne exclusive of Detroit	Macomb	Oakland	Michilimackinac	Brown	Crawford	Monroe	City of Detroit	Total
Free white males:									
Under 10 years	361	166	48	61	64	37	316	167	1,220
Of 10 and under 16	158	62	24	8	24	21	154	98	559
Between 16 and 18	36	18	10	22	11	9	26	20	152
Of 16 and under 26, including heads of families	224	63	49	251	267	84	190	206	1,334
Of 26 and under 45, including heads of families	230	122	59	261	377	69	204	339	1,661
Of 45 and upwards, including heads of families	178	52	19	69	53	32	149	57	609
Free white females:									
Under 10 years of age	315	169	45	65	67	45	268	156	1,130
Of 10 and under 16	155	68	18	26	21	15	144	78	525
Of 16 and under 26 including heads of families	197	88	25	28	34	24	187	9	692
Of 26 and under 45, including heads of families	170	80	20	30	37	13	129	116	595
Of 45 and upwards, including heads of families	98	26	14	5	7	5	82	29	266
Foreigners not naturalized	39	22	2	324	62	101	90	16	656
Persons engaged in agriculture	451	214	117	34	60	71	499	22	1,468
Persons engaged in commerce	5	1	27	244	16	58	9	32	392
Persons engaged in manufactures	46	24	2	11	10	29	40	34	196

TABLE I-2. AGGREGATE AMOUNT OF EACH DESCRIPTION OF PERSONS WITHIN THE TERRITORY OF MICHIGAN IN 1820 (cont.)

	Counties								
	Wayne exclusive of Detroit	Macomb	Oakland	Michilimackinac	Brown	Crawford	Monroe	City of Detroit	Total
Free colored males:									
Under 14 years of age	11	0	3	0	0	4	4	13	35
Of 14 and under 26	10	0	2	0	0	3	1	16	32
Of 26 and under 45	10	0	1	2	1	0	2	11	27
Of 45 and upwards	6	2	0	2	0	0	0	1	11
Free colored females:									
Under 14 years of age	7	0	2	0	0	2	0	9	20
Of 14 and under 26	7	0	0	0	0	5	0	8	20
Of 26 and under 45	5	0	1	1	0	1	1	7	16
Of 45 and upwards	10	0	0	0	0	1	0	2	13
All other persons except Indians not taxed	0	0	0	0	0	131	0	0	131
TOTAL	2,152	898	330	819	952	492	1,831	1,422	8,896

SOURCE: Marshal's Office, Detroit, Territory of Michigan. Stated by Thomas Rowland, Marshal of the Territory of Michigan.

TABLE I-5. RECAPITULATION OF THE AGGREGATE AMOUNT OF EMPLOYMENT WITHIN THE DISTRICT OF MICHIGAN, BY COUNTIES AND PRINCIPAL TOWN: CENSUS 1840

County	Mining	Agriculture	Commerce	Manufacturers and trades	Navigation of the ocean	Navigation of canals, lakes, and rivers	Learned professions and engineers
Allegan		476	13	178		9	17
Barry		361					2
Berrien		926	42	283		24	35
Branch		1,131		274			13
Calhoun		2,755	83	636			86
Cass		1,672	19	198		2	24
Chippewa		7	6	16		43	14
Clinton		518	1	40			4
Eaton		773	5	77			8
Genesee		3,300	39	343			34
Hillsdale		7,018	14	148			25
Ingham		727	2	16			3
Ionia		601	7	72			14
Jackson	40	2,700	66	479			72
Kalamazoo		774	2	174			38
Kent		451	40	88		4	26
Lapeer		1,150	9	133	3		28
Lenawee		4,611	49	356			37
Livingston		7,083	27	60	3		18
Michilimackinac		25	20	191		1	4
Macomb		1,951	9	221		1	31
Monroe		977	1	69			4
Oakland		5,468	80	924		1	130
Ottowa		3		35		9	
Oceana		87	1	32		15	5
Saginaw		205					
Shiawassee		602	7	66	1		12
St. Clair		901	49	271		51	14
St. Joseph		997		89			18
Van Buren		486	5	88			5
Washtenaw		4,482	112	963	13		117
Wayne		3,303	20	370	4	6	66
Total	40	56,521	728	6,890	24	166	904
Principal town:							
Detroit			1	22			2

SOURCE: U.S. Census Office, Abstract of the Returns of the Sixth Census, prepared from the corrected returns of the Secretary of State to Congress, by the Clerk of the House of Representatives, Washington, 1842.

TABLE I-6. RECAPITULATION OF THE AGGREGATE AMOUNT OF SCHOOLS, SCHOLARS, AND ILLITERACY WITHIN THE DISTRICT OF MICHIGAN, BY COUNTIES AND PRINCIPAL TOWN: CENSUS 1840

County	Universities or colleges	Number of students	Academies and grammer schools	Number of scholars	Primary and common schools	Number of scholars	Number of scholars at public charge	Number of white persons over the age of 20 who cannot read and write
Allegan			1	15	12	305	305	1
Barry					12	240		
Berrien	1	38			23	620		45
Branch					47	789		2
Calhoun			2	88	96	2,157		146
Cass					25	827	483	256
Chippewa					2	81	6	97
Clinton								
Eaton								
Genesee					23	479		
Hillsdale					32	1,003		20
Ingham					13	267	3	5
Ionia					8	290		
Jackson			3	246	37	1,365		26
Kalamazoo	1	70	1	20	50	1,739		2
Kent					9	303		8
Lapeer			1	20	23	570		
Lenawee	1	20	1	27	114	4,394		45
Livingston					69	1,777		
Michilimackinac								172
Macomb			2	29	76	1,973		237
Monroe					30	777		187
Oakland	1				117	4,800		4
Ottowa								15
Oceana					1	25		
Saginaw								25
Shiawassee					11	260		28
St. Clair					13	228	193	64
St. Joseph					37	819		8
Van Buren					23	516		8
Washtenaw								108
Wayne	1	30	1	40	72	3,097	8	664
Total	5	153	12	485	975	29,701	998	2,173
Principal Town								
Detroit			1	40	1	25		5

SOURCE: U.S. Census Office, *Abstract of the Returns of the Sixth Census*, prepared from the corrected returns of the Secretary of State to Congress, by the Clerk of the House of Representatives,, Washington, 1842.

the St. Joseph's, Kalamazoo, Grand river, and many of smaller size. All the rivers have a fall from the table-land. The mouths of these streams generally afford harbors of different depth and size, while few other parts are to be found along the shores, although the depth of the lakes is sufficient for all the purposes of commerce, and canals to facilitate the passage, Detroit river, &c., will hereafter render commerce still more extensive. The whole line of coast on the different lakes, including the sinuosities, is probably one thousand miles. The shores of Superior and Huron are much more irregular than those of Michigan. Saginaw bay is a gulf, sixty miles in length.

In point of soil, the best part of the grand peninsula is in the south, toward Ohio and Indiana, the upper portion being rather barren. The surface is but slightly varied, with a succession of oak-openings and rolling country, often spotted with small hollows and ponds called cat-holes.

History.—This state was first visited by the French from Canada; and Detroit (or "the strait") was founded in 1670. But it was a small town when ceded to the United States by the treaty of Paris. It was not before 1796 that this country was given up to the United States; it was formed into a territory in 1805; in 1812 was occupied by the British troops; recovered in 1813 by General Harrison; and soon after the return of peace, became one of the principal objects of emigration, and was greatly favored by the opening of the Erie canal. Fort Brady was built in 1822, when the settlement of Chippeway county, the north part, commenced.

Population.—In 1820 Michigan contained only 8,896 inhabitants; but in 1830, 28,000; and in 1850, 395,576.

The following remarks on the soil and agriculture of the state, are from a recent number of the American Agriculturist:—

"A considerable portion of the eastern part of Michigan consists of a clay soil, and is well adapted to grass and grazing. This quality of land extends from a point some thirty miles south of Detroit, to near Lake Huron on the St. Clair river, and for about thirty miles in the interior. As we advance westward, the soil, with more or less exception, gradually changes to a gravelly or sandy loam, and in some instances acquires these characteristics to so decided an extent as seriously to interfere with its permanent fertility. This is universally true of the large quantities of the oak-openings, which so generally pervade the interior and western part of the state. These lands will bear a few good first crops; but manures must follow close upon their heels, or exhaustion and sterility are as certain as blighted leaves after autumnal frosts. There are some moderately good corn lands among this class of soils, and most of it excellent for wheat; but all the agricultural vigilance of a long-cultivated country must be generally adopted, or diminished crops will soon drive the occupants into the uncultivated regions still farther west. There are many exceptions to these remarks, and none more so than a considerable part of the beautiful valley of the Kalamazoo, whose rich and gracefully undulating fields, clad with their native burr-oak, give unfailing promise of abundant wheat-fields for years to come.

"There are other and extensive portions of the state, possessing considerable fertility, which yet remain to be occupied, and which, in the inevitable progress of things, will ere long be settled, and swell the tide of her population and wealth, to a respectable approximation toward her elder sisters.

"Sheep husbandry is making considerable progress in the state, and promises soon to furnish no inconsiderable proportion of the aggregate of her occupation. Depredations from wolves seem already to offer no serious impediment to this department of the farmer.

"Wheat is the product of the state, and on this the farmers principally rely for their available exports. Never did their efforts receive a greater reward than the present season. The estimate of several judicious citizens is, that the crop fully averaged twenty bushels per acre over the state. I was informed of a wheat field containing one hundred acres, which averaged over forty-five bushels per acre, and one measured acre of which produced over sixty bushels. A cargo of this year's crop from Michigan averaged one barrel of flour for every two hundred and twenty-four pounds of wheat."

Within eight years the population of Michigan must have increased at least fifty per cent., while its area of land under cultivation and the amount of its annual product have probably more than doubled. The export of its great staple wheat (either in the berry or in flour), from the last crop will more than quadruple that from any crop prior to 1839. Its annual production of corn and other grains, of cattle and sheep, of wool and the products of the dairy, of ashes, &c., is also very considerable; but wheat is the great staple of Michigan, and will doubtless continue so, unless the ravages of the Hessian fly, now reported as terrible, shall be perpetuated.

The situation of this state is peculiar. Almost surrounded by water, *old* Michigan—the grand peninsula—is bounded on three sides by the lakes Erie, St. Clair, Huron, and Michigan, with the straits connecting them, and having Indiana on the south. The face of the country is remarkably level, and the soil mainly of a decided fertility. The latter may be said to be naturally divided into dry and wet prairie, 'timbered openings' (upland) and a heavy proportion of low, flat, wet land, most of which will be dry enough when thoroughly cleared and cultivated, but which is, as yet, rather swampy—often decidedly so. All around, on the three sides bordering on the lakes and straits, there is a belt of flat land, a little elevated above the water level, and very heavily timbered. Inside of this, the land gradually rises and becomes gently rolling, being divided into "oak-openings (having two or three dozen small and middling oak-trees to the acre, with any quantity of oak-bushes and roots, and an indifferent show of wild grasses); "timbered openings" (on which the oak-trees are much more, and the bushes less numerous); and open "prairies," or vast natural meadows, with heavy belts of forest intersecting and dividing them, usually on the courses of the streams, or on wet marshy ground. The prairies, especially all the largest and finest, are generally found in the southern half of the state, and more of them west than east of a line drawn through its centre. These are pretty easily subdued and abundantly fertile; the oak lands are "brought to" with more labor, but also yield largely both wheat and corn.

Aside from its general depth and fertility, much of the soil is strongly impregnated with lime, which accounts for its partiality to wheat. The low and luxuriously timbered lands (usually with elm, cucumber, basswood, &c.) have not to any great extent been cleared as yet, being most stubborn and least inviting; but here also the soil in the main is strong. Yet even Detroit appears to be closely hemmed in to landward by the primitive forest, which still covers probably five sixths of the nearest hundred square miles.

On the west side of the state, especially around Saginaw bay, there are extensive forests of choice pine; and far in the North is a great abundance of poor land—extensive sterile swamps and marshes, checkered by barren knolls and hillocks. But nobody thinks of settling in that bleak, forlorn region, and the great portion of the soil north of a line drawn through the centre of the state is good, as nearly all south of that line is. Very few states exceed this in agricultural capacity, either in the aggregate, or acre to acre.

The absence of mountains or anything like them through the greater part of the state, is by no means an unmingled good. It is the cause of a palpable deficiency of springs and running streams through the better portion of the state, and of a decided deficiency of navigable waters within the state, though it is so nobly provided with them externally. But this again is compensated to a great extent by the signal facilities everywhere presented for the construction of canals and railroads, especially the latter.

Thus tempted, the state undertook, about the year 1836, the construction of three lines of railroad across the peninsula—the central, stretching hence to Lake Michigan near the mouth of the St. Joseph; the southern, from the Maumee near Toledo due westward; and the northern. On the two former a very considerable beginning had been made when the state fell into pecuniary embarrassments, in part owing to the magnitude of her undertaking, and somewhat to a change in the times. The southern road was arrested; the central road was feebly and haltingly prosecuted, fed by the sale of state lands and the issue of treasury warrants, which sold at a ruinous depreciation; and of the revenue accruing on the completed portion of the road or roads, nearly all was absorbed. Such was the condition of these works when, more than a year since, the state decided to offer the central road, just as it stood, for sale for two millions of dollars of her acknowledged debt, which then was worth in the market something less than one million dollars. The offer was accepted by a club of Bostonians, the payment made, the road transferred, and instantly placed under very different management. The receipts of the completed portion rapidly increased, expenses were curtailed, and the work on the unfinished portion vigorously stimulated, payment therefor being made promptly and in cash. Already the road is in operation to Kalamazoo, more than half way across the state, and it is to be entirely completed at farthest within the next year. Already the finished portion pays a liberal and rapidly increasing profit on its cost to the company, whose stock is at a high premium, and can rarely be bought at all. Already preparations are being made for relaying the old track, now very imperfect, with a new and improved rail; while in the city large purchases of real estate have been made by the company, mainly on the river or strait just below the present centre of trade, including a water-front of sixteen hundred feet, on which a gigantic freight and a passenger dépôt are to be erected, while the track of the railroad to its decreed terminus is to occupy, for a considerable distance, what is now part of the river, which is to be filled in for the purpose. By this means vessels will load and unload directly from the dépôt, whereas now there is a necessity of carting every barrel and bale some two hundred rods, involving serious expense and waste. On these works a large number of men are now employed here.

The southern railroad (a much ruder and less promising work) has been or is to be sold for half a million of dollars of state liabilities, in order that it likewise may be pressed onward to completion.

The usual time of departure from Buffalo is in the evening. Lake Erie is traversed in about twenty-four hours, stopping at Cleveland and Detroit. Passing the beautiful Detroit and St. Clair rivers, and the wide-spreading and difficult flats of the latter, you enter Huron, and stretching along an unbroken wilderness coast for hundreds of miles, passing Saginaw bay and the Thunder bay islands, reach Mackinaw, the resort of all who delight to enjoy a glimpse of its solitary loveliness, or to breathe its pure, cool, and invigorating atmosphere. This (including the time to wood) occupies two days and a half. Thence passing the straits of Michilimackinac, and the Maniton islands, the boat pushes either across Lake Michigan to Sheboigan, Milwaukie, &c., or passing up Green bay, and stopping at, or catching glimpses of, its innumerable islands in all their greenness and beauty, reaches Navarino. Returning through the passage called "Death's Door," and again entering Lake Michigan, the voyage is pursued to Chicago, stopping at Milwaukie, Racine, and Southport—the populous and rapidly-growing creations of the lake commerce and western settlements: thus terminating the voyage where nature and art combine to fix the seat of a great city—now rapidly rising as such, and combining in a remarkable degree the elements of commerce, business, society, and refinement. In short, nothing can exceed the upspringing vigor of such cities as Buffalo, Milwaukie, Racine, and Chicago; and no one can predict perhaps with too glowing a prospective the destiny of the mighty region now just springing into life and being.

The voyage to Chicago, via Green bay, may be made in five days or less, according to the delays at the places and points of interest on the route. The distance is about 1,350 miles.

Returning, the excursion may be extended, with additional gratification, from Mackinac to the Sault St. Marie, or even far up into Lake Superior and the mineral region. At least the trip to Chicago should be taken by all who desire to understand, not only the breadth and scope of these inland waters, and the cities on their borders, but the teeming population—the great and rapidly-advancing free states—to which they afford the avenues of a commerce and intercommunication, already of gigantic extent, and the mighty progress of which the most sanguine may not fully predict.

Lake St. Clair.—The St. Clair flats are formed by the division of the waters which issue from Lake Huron through the St. Clair river, by two or three low marshy islands, forming three or four channels or branches, within and just below which division the water, being wide, has in some places a depth of only six or eight feet, or something less than a steamboat will draw, if built stanch enough for the lake trade and tolerably loaded. Of course they generally get aground, and, there being no tide in the lakes, have no choice but to remain aground until a good part of their freight can be transferred to flatboats termed "lighters," which are on hand, ready to be serviceable for a consideration. Fifty thousand dollars well applied here would dredge out a deep and wide channel, and the current is so very gentle that it would not move the sand back again. Yet for want of this fifty thousand dollars (vetoed in the harbor bill), the farmers, whose produce, and the emigrants, whose families, as well as the merchant, whose goods, must traverse the lakes—are put to an expense, including that of delays, probably not less in one year than the entire cost of dredging out a clear and durable channel. Such is one of the many grievances which impelled the people of the west to ask their fellow-citizens generally to meet them in convention at Chicago, in 1847, to consider the general subject of river and harbor improvement.

The banks of the St. Clair river are low and level, generally well wooded, except where settlement has driven back the forest for a mile or less. The British side appears highest, driest, and most settled. A part of it has been peopled by white men for fifty or sixty years—as a good part of *our* bank of the Detroit river and Lake St. Clair has for even a longer period. The old settlers are of French origin, and are wedded to old customs; they are seldom seen out of their settlements. The largest and most active village on either side for a hundred miles above Detroit is Newport, in St. Clair county, famed for steamboat and ship building. Saginaw, a thrifty lumbering village at the bottom of Saginaw bay, much further up, is larger, but far away from the steamboat route to Mackinac or the Sault.

DETROIT.—This city is situated in latitude 42° 20′ and longitude 6° west of Washington, on the shore of Detroit river, which is the outlet of Lake Huron into Lake St. Clair, which lies midway between it and Lake Erie. The river is above a mile in breadth, and divided into channels by Peach island, and below by Grand Turkey island.

The town stands on an inclined plane, rising thirty feet; most of the streets are regularly laid out at right angles, but obliquely to the bank of the river; there are several fine, broad avenues, and the situation for trade is highly advantageous. It contains the old statehouse, city-hall, a markethouse, eleven churches, four banks, masonic-hall, a land-office, two orphan-asylums, three female academies, several literary societies, and twenty-five thousand inhabitants. The first steamboat arrived here in 1818.

The growth of this city has taken the healthy form of expansion in every landward direction, instead of the too common mode of accommodating an increasing population by filling up the interstices between old houses with new ones, and putting one on the top of another. Nearly all the dwellings stand healthfully apart, and each surrounded by its little garden or grass and flower plat, evincing a fondness for shrubbery and the minor poetry of nature. Many of the streets are thickly set with rows of young maples, in some instances two rows on one side of a wide avenue, which will in a few years add greatly to the beauty and comfort of Detroit, especially of its favorite promenades. All around are signs of growth and prosperity, to which the development of the mineral wealth of the Lake Superior region has already, though in its infancy, given some impetus, and is destined to give far more. The only counterpoise to this is the removal, last winter, of the state government to a township in Ingham county, named Lansing, seventy miles northwest of Detroit, wherein is the confluence of the Red Cedar creek with Grand river, which latter, however, does not become navigable until far below this. The location on a corner of a county, in a township as yet mainly in primitive wilderness, remote from natural or artificial, present or prospective facilities of travel and transportation, created much surprise at first. Yet the site is pretty central to the whole state, not specially objectionable on any ground, and the selection seems at present to be pretty generally acquiesced in.

Agents transport flour hence by way of the Welland canal, Lake Ontario, the St. Lawrence to Montreal, the railroad, Lake Champlain and the Champlain canal, to Albany and New York, for the present charge from Buffalo to New York.

Monroe is on the right bank of the river Raisin, two and a half miles from its mouth and Lake Erie, and thirty-seven miles from Detroit. It has two banks, a land-office, a courthouse, seven churches, two academies, a reading-room and library of fifteen hundred volumes, and a number of manufactories. The number of inhabitants is about 5,000. Cars set off every day for Hillsdale, through Adrian; and stage-coaches daily for Detroit, and for Toledo, Ohio.

A branch of the university of Michigan is established in Monroe.

Marshall, on Kalamazoo river, at the mouth of Rice creek, is one hundred and thirteen miles west of Detroit. It contains a bank, four churches, an academy, and a number of mills and manufactories, with about 4,000 inhabitants. Cars start daily for Detroit and Kalamazoo.

Kalamazoo.—This town is situated on the left bank of the river of the same name, at the distance of one hundred and forty-six miles west from Detroit, with which it has a daily communication by the railroad. There are three churches, a land-office, a courthouse, and a branch of the university.

St. Joseph's is two hundred miles west of Detroit, on the bank of the river of that name, at its mouth in Lake Erie. A part of the town looks out upon the lake, where is a good harbor. It is a place of increasing importance, and contains a courthouse, three churches, a bank, and a population of about 900. It has daily communication with Chicago by steamboat, and stages run to the Detroit railroad; and stage-coaches run to Chicago through " Michigan city."

Mackinac.—This town is situated on the southeast extremity of Mackinac island. The public buildings are the courthouse, two churches, a school of the American board of commissioners for foreign missions, a Roman catholic missionary school, and a branch of the university. It has over 1,000 inhabitants. The harbor is large enough for one hundred and fifty vessels, and a valuable fishery is carried on, which supplies a considerable export trade, above three thousand barrels of white-fish and trout being sent out annually. A considerable amount of business is annually done in the fur trade.

Mackinac consists of three slight wooden piers, a water street and a back street, with perhaps sixty houses on both. The fort stands to the right of the village, on the brow of the eminence, is built of a porous, shelly limestone, and has a tolerable command of the main passage out of Lake Michigan into Lake Huron; but it happens to be itself commanded by a higher eminence, a mile west of it, which the British silently seized and fortified at the outbreak of the war of 1812, placing guns there in battery and summoning our commandant to surrender before he suspected even that war was declared.

Mackinac has a commanding view of Lakes Michigan and Huron, with the surrounding isles, headlands and bays. The air is very pure, and there is some timber, but it is mainly covered with low, shrub-like evergreens—fir, spruce, &c. It is among the coldest spots within the limits of our Union. The apple-tree blossoms, but does not bear there, any more than at the Sault.

The soil is mostly gravelly and rock of a limestone nature. In traversing the island, which is about ten miles in circumference, we find but three farms, and they not much laid under cultivation. Farming, however, must be profitable; a ready market being at hand in the village, which now contains by estimation not far from 1,000 inhabitants, who are mostly engaged in fishing.

The village, within the past five years, has begun to wear a greatly improved appearance, several good buildings having been erected, which are neatly painted, and several new ones now going up. All the upper lake steamers and sail craft stop at the wharf for an hour or two to wood.

Usually there are a number of Indians visiting the village from the main shores. They come in their bark canoes, freighting poles, bark, and matting, for a temporary wigwam. They pitch their tent on the beach during their stay, and are gazed at most intently by the passengers. Apparently they are all happy. Songs and laughter emanate from them in the evening, echoing over the broad expanse of waters. Many of the "curiosity" wares are made by the squaws, and bartered with the merchants for provisions. The sales of these curiosities to strangers can not be less than $15,000 annually.

The imports of the place are now estimated at $150,000 annually. The exports for a great number of years have been mostly furs. This trade declining, fish has taken their place. The merchants are interested in the business—all of them more or less. But few of them, however, are engaged in catching them. They generally sell or let nets, furnish barrels and salt, and then purchase of the fishermen after they are packed.

FISH PACKED AT MACKINAC AND VICINITY.

Year.	White-Fish. bbls.	Trout. bbls.	Total. bbls.
1835	1,200	—	1,700
1837	—	—	1,600
1840	3,250	750	4,000
1841	4,500	500	5,000
1842	6,275	1,425	7,700
1843	9,800	2,110	11,910
1844	12,200	3,575	15,775
1845	15,150	4,270	19,420
1846	16,000	4,000	20,000

These fish were packed and shipped from this place, and were taken at St. Croix, Grande Traverse, Little Traverse, L'Arbre Croche, and fishing grounds adjoining. It will be seen that the trade is flourishing, and in a little over ten years has increased from 1,700 barrels to 20,000.

The fishing, however, on the upper lakes, is not confined to this place and vicinity. Other points on Lakes Huron and Michigan are profiting by it. We append the statistics of the business at

SAULT ST. MARIE AND LAKE SUPERIOR.

Year.	White-Fish. bbls.	Trout. bbls.	Total. bbls
1835	—	—	2,300
1837	—	—	6,100
1840	8,000	4,000	12,000
1841	7,000	3,000	10,000
1842	7,500	3,000	10,500
1843	2,500	500	3,000
1845	2,100	250	2,350
1846	1,550	175	1,725

During the years 1841 and 1842, the American Fur Company met with heavy losses in the fish trade on Lake Superior, and they abandoned the business. Since then it has been carried on by various individuals on a small scale, and will not probably regain its former flourishing condition until a canal is constructed around the falls of St. Marie.

On the St. Mary's river, in the neighborhood of St. Joseph's, on the British side, the business is carried on largely, which goes to the Canada market. The catch is generally from 6,000 to 8,000 barrels yearly.

At Beaver island and vicinity, on Lake Huron, a large quantity is taken annually. A gentleman in the trade is of opinion that 10,000 barrels will be packed this season.

At False Presque isle, Thunder bay, and vicinity, last season, 12,000 barrels were furnished for the Ohio market.

Of the business at Green bay, Drummon's island, Three rivers, the Manistee, Sheboigan and Racine rivers, Saginaw bay, and other grounds, we are without particular information. An old fisherman estimates the quantity packed at these places last season at 20,000 barrels. This is considered a low estimate.

The following is a recapitulation for 1846, in barrels: Mackinac and vicinity, 20,000; St. Marie and vicinity, 1,725; Beaver island and vicinity, 10,000; Presque isle, Thunder bay, &c., 12,000; other places on Lakes Huron and Michigan, 20,000; Canada side, estimate, 15,000; total, 78,725.

In addition to barrelling, at several points, large quantities are boxed daily in ice and shipped to Chicago, Milwaukie, Detroit, Toledo, Cleveland, and Buffalo, on sale. The sales at Mackinac for the consumption of steamers passing, is no small item. It amounts to not far from one hundred dollars' worth per week. The whole catch of all the lakes may, therefore, be safely estimated at 100,000 barrels. When an access to Lake Superior is easy by canal, that almost unexplored lake will annually furnish an equal quantity.

The number of barrels required gives employment to at least three to four hundred persons in their construction. The salt consumed is an item of consequence to commerce, and the freight is worthy of note. The business may now be considered at *half a million of dollars per year*. A canal completed at the Sault would swell it in five years to a million.

ANN ARBOR is situated on both sides of Huron river, forty miles west of Detroit, with which it has daily communication by the railroad, and also with Kalamazoo. It is divided into the upper and lower town by the river, and the elevated ground which it occupies makes the situation a fine one. It contains a bank, courthouse, six churches, and a number of manufactories, with about 3,500 inhabitants.

The *University of Michigan*, situated here, was founded in 1837, and has three professors, about eighty students, and libraries containing about five thousand volumes. The cabinets contain valuable collections made by the state naturalists.

YPSILANTI.—This town also stands on Huron river, which furnishes valuable water-power at this place. Here are several mills and manufactories, four churches, and about 2,500 inhabitants. Railroads afford daily communication with Detroit and Kalamazoo.

JACKSON stands on the right bank of Grand river, seventy-nine miles west of Detroit, and contains about 3,000 inhabitants. The public buildings are a courthouse, four churches, an academy, and the state penitentiary, with a branch of the university. Cars go daily for Detroit and Kalamazoo.

ADRIAN.—This town is on the right bank of Raisin river, at the distance of sixty-seven miles from Detroit, and contains four churches, a courthouse, an academy, a number of manufactories, mills, &c., and a population of about 3,500. Railcars go daily to Toledo, Hillsdale, and Monroe.

Saut de Sainte Mary, or falls of St. Mary (familiarly called the Soo) stands on high ground on the right bank of St. Mary's strait, just below the falls, or rapids. Here are Fort Brady, the trading-house of the American Fur company, three churches, and a courthouse. The population is about one thousand.

The organization of copper companies commenced here in 1845, and during the past year at least one hundred were formed. Many of them are good, but not a few of them will prove mere bubbles. Those who have commenced working on their locations meet with great encouragement. Eight hundred and ninety-six permits for location have been granted by government. The companies that have actually commenced work, or have left men in charge as settlers, are entitled to pre-emption, under the late law for the sale of the lands. Of this class, there are not probably more than twenty-five companies, and they cover much territory, some of them as many as twenty-five permits, or sections. Those that hold pre-emptions get their lands at two dollars and a half per acre; the others at five dollars. Rising of twenty companies have expended much money in mining operations—one company over one hundred thousand dollars, and others from five to fifty thousand. Of the ultimate success of their operations, few who have visited the country have any doubt. The enterprise is necessarily attended with heavy outlays at the commencement, for machinery and mining implements.

It is but a few years since nearly all the iron and lead consumed in this country was imported. It was with the utmost difficulty that capitalists could be persuaded to embark in it. The lead mines on the Mississippi lay dormant for years, for want of confidence in their productiveness. The experiment, however, of mining it was tried; and now this country exports the article to various parts of the world, and the stockholders are amassing a great interest on their investments. The copper business is more promising at this time than even lead or iron. Many more have visited Lake Superior and gone into it. The Cliff mine has raised 2,495 tons of native copper and vein-stone containing copper. A portion of it was sent to Boston and Roxbury for smelting. According to a statement based upon the portion smelted, the amount of pure copper is about three hundred tons, at four hundred dollars a ton, worth one hundred and twenty thousand dollars in the aggregate. A shaft has been sunk one hundred and sixty feet below the bed of Eagle river, and a vein of native copper, four feet wide, was found of great richness.

The Eagle Harbor company have opened twenty veins containing native copper and sulphurets. Native silver has been found in the copper ores as tested by Professor Mather. Two hundred tons of ore has been raised from one vein; forty tons of it was shipped to New York last fall, of which the Waterbury (Connecticut) brass foundry smelted five tons and obtained forty-five per cent. of pure copper. An ingot of it was rolled there for platers' use without annealing, which can not be done with even English refined cake-coppers. A smelting establishment has been erected.

The Northwestern company have sunk a shaft to a considerable depth, and a large quantity of vein-stone, containing copper, has been raised.

The Bohemian company commenced exploring their location in 1846. A vein of gray sulphuret, of great richness, was found.

Prince's mine raised a considerable amount of ore, which has been sent to England for analysis. It is supposed that it contained much silver. The bed is worked vigorously this season.

A company in New York and Philadelphia have sent a German geologist up the country, to erect smelting works and a laboratory. There is now a sufficient ore on the shores of the lake, to keep a large establishment at work a year.

The Bruce mine begins in or very near the St. Mary's river, a little above the point at which its name is lost in that of Lake Huron, and where its outlet winds among and is divided by the thousands of islands which chequer the north end of that lake. It is on the British mainland, opposite St. Joseph's island, which is also British territory. The usual route of steamboats is on the other side of this island.

The course of the vein is north forty-five degrees west—neither parallel nor at right angles with the river, but about half way between; the principal development has been made sixty rods from the water's edge. The average width of the whole is over eight feet. It is said to grow richer as it descends.

The ease of quarrying it is wonderful, and can not be overstated; ten thousand tons of this ore may be mined and placed on a dock at the river side, ready for shipment, for less than the cost of transporting as much ore already raised and dressed from almost any Lake Superior mine to Saut St. Marie, so as to be ready for shipment below. It certainly must be a large estimate to make the cost of delivering ten thousand tons of this ore on shipboard, fifty thousand dollars, or five dollars per ton. If the ore yield but ten per cent. of copper—and it can not be worth less than twenty or twenty-five dollars per ton on shipboard—the profit to be made from working it may thus be roughly computed.

Another vein just opened on this location, not fifty rods west of the vein just described, is about six feet wide on the surface. Nearly a mile further west, on the same location, is a vein eighteen feet wide on the surface, but this is less rich than the worked vein.

The Bruce mines, belonging to the "Lake Huron and St. Mary's river company," are situated on the north shore of Lake Huron, about seventy miles below the Saut, within thirty hours' run by steamer from Detroit; they were discovered, during the early part of last summer, by an exploring party under the direction of Captain Keating, late of the Indian department, her Britannic majesty's service. In addition to the location on which they are situated, the same company have three others, situated either on the shores of Lake Huron or on the banks of the St. Mary's river, and all below the Saut. The Lake Huron and St. Mary's river company was first organized in Montreal, in the early part of November last, and immediately afterward, Captain Keating, accompanied by Mr. Arthur Rankin, of Sandwich, proceeded to the island of St. Joseph, whence the latter gentleman, accompanied by an experienced practical miner, proceeded to the location. After spending two days in examining the veins, &c., he set out in an open boat, for the Saut, on the morning of the 20th of November, in order to take the steamer Champion on her last downward trip for the season, having in one day got out a sufficient quantity of ore to fill sixteen barrels, besides several large blocks, one of which weighed six hundred pounds; another weighed about two hundred. Part of the ore was taken to Montreal, and the remainder to New York, whence about a ton was sent to Baltimore to be smelted, where it was found to contain twenty and a half per cent. of pure copper. On the 12th of December last, Captain Keating, with one regular miner and four laborers, commenced operations by sinking a shaft in one of the veins on the location.

LANSING.—The new capital of Michigan is just beginning to assume the appearance of a town, and is pleasantly situated in the northwest part of Ingham county, near the confluence of Cedar and Grand rivers. Population 2,500.

Its recent aspect—the smoking heaps of wood, the blackened surface of the ground, the standing girdlings and board shanties—more readily suggest the idea of some immigrating colony, than the capital of a great sovereign state.

At first view it seems strange that a dense forest, with only here and there an opening, should have been selected as the site for the city. But when understood, one will not think so. The advantages to the state in general by the removal of the capital from Detroit, will be very great. There it was at one side; here it is in the centre of the state, and surrounded by a territory, which, in point of fertility and all other agricultural facilities, is scarcely anywhere equalled.

On the river near the town is abundance of water power.

The new statehouse is not designed for the permanent one, and its plan is therefore not very magnificent. The spot selected for the site is on a pleasant elevation above Grand river. The foundation of it is laid, fronting on the river ninety-seven feet, and sixty deep. The basement story is of stone, and is designed for offices, &c.; the superstructure is of two stories, for the two houses of the legislature.

There is no stone on the soil; but an abundance of stone convenient for building is found in the river.

New roads are opened, and settlers fast coming in; and what was formerly regarded an obscure by-place, will soon be the point for news and intelligence for all this vicinity. A line of stages now communicates between this place and the railroad at Jackson, and the trip from Detroit is easy.

The *Illinois and Michigan Canal* extends from Chicago, on Lake Michigan, to La Salle, at the head of steamboat navigation on the Illinois river, a distance of one hundred and five miles. The canal is constructed the same size as the proposed enlargement of the Erie canal of New York—the water being six feet in depth and sixty feet wide at its surface. The locks are one hundred and ten feet long between the gates, and eighteen feet wide, admitting the passage of boats conveying one hundred and fifty tons burden. Upon the original plan, this canal was to be supplied with water drawn from Lake Michigan. It is now constructed with the summit level raised eight feet above the surface of the lake; and the supply of water is obtained, in part, through a feeder about seventeen miles long, from the Culmet river, and in part by introducing the Des Plaines river, which runs a considerable distance along the side of the canal, and the surface of which is on a level with the water in the canal at the summit.

These two sources will supply, in all ordinary seasons, a sufficient quantity of water for a maximum trade on the canal; but in seasons of extreme drought there will be a deficiency of 3,300 cubic feet per minute; and to supply this periodical deficiency, two steam-engines of one hundred and sixty-three horse power each, are in course of erection at the junction of the canal with the Chicago river, five miles south of the city of Chicago. The power of these engines is to be applied in part to cast-iron cylinder-pumps of four and a half feet diameter, and in part to a wheel with float-boards, working in a tight chamber, to raise the water from the river (which is here on a level with the lake) eight feet in height upon the summit level. The surplus power, above that which may be required to these pumps, &c., as well as when the pumps are not required, it is proposed to apply to some kind of manufactures.

The canal occupies the channel of the Chicago river for five miles from the lake; it then rises by a lock of eight feet lift, to the summit level; thence to the first lock at the south end of the summit, is twenty-seven miles, or three miles above Lockport. From this point the canal descends along the valleys of the Des Plaines and Illinois rivers, by fifteen locks, overcoming a fall of one hundred and forty feet. At the distance of twenty-four miles from Chicago, the extensive rock excavation commences, and extends nine miles in length, varying in depth from four to twenty feet, making an average depth of fifteen feet. The excavation of this amount of rock has cost an immense sum, but by raising the summit level eight feet, a very great additional amount of rock excavation has been avoided.

On the final completion of the canal, the immense piles of rock, which had lined the canal banks, became available for the people of Chicago to Macadamize and improve their streets, pave their sidewalks, and in brief, for building purposes generally.

This canal has very few mechanical structures in proportion to its length. There are but four aqueducts, and only ten stone arch culverts, of eight to twenty feet span, and two stone dams, one across the Des Plaines, and one across the Du Page river. The whole of the canal has been constructed in the most thorough and permanent manner, and reflects great credit upon the skill and scientific acquirements of the engineer-in-chief, William Gooding, Esq.

One important feature of this canal, and of canals in general, over other modes of communication, is the water power which they create for manufacturing purposes, the effect of which is to increase directly the amount of business on the canal, by the transportation of the raw materials and of the manufacturing products, but it has a further effect in its influence upon the more speedy settlement of the country, and the development of the agricultural and mineral resources of the country adjacent to these lines of improvement.

It is estimated that above the town of

Joliet there will be eighty-four runs of stone, on a fall of sixty feet; and below that place, forty-five runs, on a fall of the same amount; making one hundred and twenty-nine runs of stone. This quantity of power may be increased by using the whole force of the steam power, to raise the water eight feet high from the Chicago river, and discharging this additional quantity of water at the south end of the summit level over a fall of sixty feet.

Of course it is impossible, from the rapidity with which this western country is filling up with inhabitants, and not of being able to foresee to what extent changes may take place in the present roads and routes for the transportation of the great interior commerce of the west, to make any definite calculations as to the amount of business which may be done on this canal. The following exhibit has been prepared by a person who is well acquainted with the subject. It is intended as an estimate of the amount of business and toll on this canal for the second year after its completion:—

			Tolls.
Lumber	33,472,000	feet.	$33,472
Salt	207,700	bbls.	37,386
Flour	400,000	"	60,000
Wheat	2,257,000	bush.	100,650
Sugar, molas's, and tobacco	8,625	hhds.	10,781
Merchandise	38,298	tons.	76,576
All other articles			45,000
Total			$364,865

Sheep.—Grain has been considered the principal staple of export. To this we may now add wool-growing. As early as 1834, the farmers of Macomb county gave attention to it—particularly in the towns of Shelby, Washington, Bruce, and Armada. They led in the introduction of sheep into the territory, and have continued ever since to increase their flocks in quality and number. The state census of 1837 gave the number in that county at 5,365 head, which was then over one quarter the number in the state; the whole then being but 21,684.

The United States census taken in 1840, only three years after, gave the number at 89,934. During the years of 1840 and 1841, a company of gentlemen from Vermont took into the counties of Kalamazoo, Van Buren, and Eaton, over 25,000 head, and left them with the farmers on shares. During the same years, many of the more thrifty farmers sent out to Ohio and obtained many thousands, and sold them in the western counties. Among others, Rev. John D. Pierce was zealously and patriotically engaged in getting into Calhoun and vicinity the best breeds. Mr. Pierce sent east and to Ohio for some four or five thousand, which he sold to his poorer neighbors, on time sufficient for the fleece that could be obtained, would enable them to pay. In those times, a majority of our farmers were poor, for it took two or three years to get a dollar surplus. Most of those to whom Mr. Pierce sold, are now large growers. The increase since 1840 has been almost beyond belief. Thousands after thousands have been driven from other states—western New York sending her full quota of the best of Merinoes and not a few Saxonies.

During this time a large number of cloth-dressing establishments have been erected, and some dozen woollen factories, in various parts of the state. The largest are at Pontiac, Ypsilanti, Ann Arbor, Jackson, and Marshall. The wool now manufactured into cloth in the state can not be far from 500,000 pounds, including the home-made flannel.

The present number of sheep can not be estimated at less than 600,000. The crop averaging three pounds each, would give 1,800,000 pounds. The whole averaging twenty-four cents to the pound, give a total of $432,000. Of this quantity, say—home consumption 500,000 pounds; for export 1,100,000 pounds.

We are borne out in this conclusion by the exports of past years, and increase of sheep.

The exports were—in 1841, 23,000 pounds; in 1844, 256,407; in 1845, 412,081; in 1846, from Detroit, 506,103; from Monroe, 84,424; from St. Joseph, 4,000; from Toledo, 124,600: making a total of 716,587 pounds.

This season a large number of eastern manufacturers are in market, particularly for the coarser kinds, the new tariff having done away the duty of five per cent. on foreign coarse wools, that cost abroad seven cents and under, and made a uniform duty of thirty per cent., which tends to keep the harsher qualities from coming from South America to compete with ours. Another branch of manufacture of which wool of the coarser qualities is a component part, has sprung up at the east—*Mousseline de Laine.* Eight or ten large factories have been erected. For years this class of goods has been supplied from France and England. One of these establishments at Nashua, New Hampshire, will use a million of pounds annually. This new branch of industry will add five millions of pounds to the consumption yearly. The Bakewell, English, and South Down sheep, having long wool, are preferred, as it has to undergo a combing process.

Farmers say it is more profitable to raise wool, at present prices, than to grow wheat at sixty-two and a half cents a bushel. Sheep do not exhaust land, but, on the other hand, fertilize it. If it can be grown at the east with profit, where the very interest on the land is more than the purchase of pasturing in this state, the west, in a short time, will supplant the east in its production entirely. Since the west has gone into the business, mark the increasing quantity that has passed through the Erie canal.

The following is a statement of the arrival of wool at tide water on the Hudson river, and average price :—

Year.	Pounds.	Value.	Price.
1840,	2,876,000	$1,150,400	40 cts.
1842,	3,355,000	1,004,554	30 "
1843,	6,216,400	1,678,428	27 "
1844,	7,672,300	2,519,474	38 "
1845,	9,504,039	2,946,252	31 "
1846,	8,866,376	2,571,415	29 "

The amount of wool which arrived at Buffalo from Michigan, in 1844, was 256,407 pounds ; in 1845, 412,081 ; and in 1846, 716,587.

Wool has also become an article of foreign export, there being no duty on it in England. The project was never tried till 1844, when about 300,000 pounds went from Boston and New York. The quantity has annually increased since.

In almost every village of this state there are wool-buyers. In the principal ones, eastern manufacturers have agents.

The Pictured Rocks of Lake Superior.—The southern shore of Lake Superior is distinguished by long ranges of inaccessible rocks, which form a hopeless obstacle to the unhappy navigator driven before a northerly storm. For miles there is not a spot to be found where even a canoe can effect a landing, or where a man could climb up the lofty perpendicular banks, to escape destruction. The water is deep quite up to the base of the cliffs, and the region is shunned, especially in bad weather.

In some places, however, where a small accessible point has been found, the Indians formerly made their landing-places ; and remains of their rude drawings are still traceable upon the precipices far upon the shore. One of the most remarkable of these is represented in the vignette. The cliffs are high, bold, and apparently perpendicular ; but their faces are marked with drawings of different figures, explicable only by members of the tribe or nation by which they were inscribed, but all significant parts of a record capable of distinct interpretation only by those acquainted with the secrets of the system.

The figure of an animal is usually the token, or armorial representative, of some tribe, family, or individual ; and rude drawings of objects are expressive of things or actions connected with them. By the aid of native interpreters, the inscriptions on some, it is said, have been discovered to refer to a great Indian military expedition against a nation on the north side of the lake, to which the pictured rocks of the Mississippi also relate.

The following description of a visit to this remarkable spot, by a gentleman engaged in surveying the upper peninsula of Michigan, for the United States government, will be interesting to the reader :—

"I had passed and repassed the 'Grand Portal' of the pictured rocks, three different times, and had once made a sketch of it, but it seems I had never ascertained the extent of its interest. In passing it lately, all the circumstances being favorable, we determined to enter the arch with our boat; and though our mast was only about sixteen to eighteen feet high, still the feeling, as we approached, was, that we must take it down to be able to pass under the apex of the arch; but drawing nearer, the mast seemed to shrink, and the arch to tower upward, until our sail shook under a vault one hundred and twenty feet high! So much is the eye deceived by a general proportionate grandeur. Entering, we found ample room for a vast ship-of-war, with sails all standing, to conceal herself, turn round, and come out without impediment. Although the water is deep for three fourths of the way, yet at the far end of the cave there is, first, a pile of huge fallen blocks of sandstone; and, beyond these, a sand-beach, fifty to sixty feet wide. Excited by a work so magnificent, I determined to make it my observatory until I had ascertained the form and dimensions as accurately as expedition would permit. For this purpose, and to enjoy the romantic luxury, I resolved on spending a night where I need not call upon the mountains to hide me.

“As there was a spice of danger in passing a night in this palace of the winds and waves, I landed the party to encamp on the sands, near the Doric rock, and was then transported and led in the cave with my nephew and instruments, the voyagers returning with the boat to the encampment. Here we were more securely imprisoned than Napoleon on St. Helena, the only means of escape being to climb over hanging rocks two hundred feet high, or swim half a mile of the lake, with water so cold as to stiffen us in one eighth of that distance, and our provisions, a few sticks of wood which we brought in the boat, and a bucket of bean-soup. But we gave ourselves no anxiety, for we had too much work to perform. Immediately we measured our base line for triangulation, five hundred feet long, all within the cave of the great arch. At this part of the Pictured Rocks there is a table of sandstone about two hundred feet high, presenting to the lake a perpendicular wall of waving and angular outline for several miles. At the Grand Portal, the rock juts out into a short peninsula by two curves which come up like the curves from the shoulders in each side of the neck; at the end it is abruptly truncated as if the head had been cut off. Into this truncated end enters the Grand Portal arch, about one hundred and twenty feet high, and, pentrating about three hundred feet, terminates in two smaller arches. Near the far end, a cross arch, opening on each side of the neck, traverses the main cavern. Thus the ground plan, like that of ancient cathedrals, is a cross; in the portal, however, the head of the cross is double. We ventured to give names to the various apartments: First, the Grand Dome opening in the Grand Portal; second and third, the first and second dormitories; fourth and fifth, the right and left wings of the cross; sixth, the vestry with columns, groined arches, and Gothic windows communicating with the right wing; seventh, the Egyptian labyrinth, consisting of cylindric and groined galleries, supported by peculiar columns, having a distant resemblance to the Egyptian, communicating both with the right wing and with the Grand Dome. The form of the columns is that of two elongated bells, with the two small ends joined to form the middle of the shaft; or, to detail the figure, it is expanded at the top like an inverted bell, contracts rapidly as it descends, and by a gradual curve becomes nearly cylindric for some distance; and again it contracts on a gradual curve till it comes almost to a point, where it meets the same figure reversed. This form is essentially beautiful, being a solid generated by rotation of Hogarth's sigmoid line of grace. To explain the mode of its formation would lead to too long a discussion.

“Our most active and frolicsome half-breed voyager had waded the water, and, without our perceiving him, had entered the labyrinth. To our surprise he thrust his head out of a hole in the Grand Dome, and uttered a hideous growl. His companions instantly took up the drama of the beast in his den, and hurled a volley of stones at him. Darting back, Legarde presented his head at another opening, and defied his pursuers with a still fiercer snarl; instantly there followed another volley, another evasion, and another peal of laughter echoed back from the dome. I labored hard until dark, and then discovered a new danger in making it my place of rest. I found a great part of the cave to be lined with a shell of stone loosened by the last winter's frost, and ready at all points to fall with crushing force. Going back to the farthest recess of the dormitory arch, I knocked off all the loose stones, propped up my cot on piles of rocks, and composed myself to sleep, not unmindful, as I lay down, that the canopy of my bed was of solid stone, two hundred feet thick, with a forest of fir-trees on top as the ornamental fringe. About midnight I arose, lighted a candle, built a fire, and walked forward with my lantern to the farthest block of stone. Here I gazed at the great star-lighted window presented by the portal arch, and as I stood, the polar star just twinkled on the verge of the opening, making the angular altitude equal to the latitude of the place. Again I lay down in the dormitory and listened to the dirge-like music of the ripple, as it kissed the rocky fragments and danced into the labyrinths. In such situations there is often a mirage of sound as wonderful as that of sight; the discords seem to be absorbed, and the harmonious notes are echoed and reverberated with more enchanting spells than belong to the Æolian; commingled with the dirge one imagines imitations of cascades, hail, rain, and storms. This was the pianissimo; while the fortissimo would be witnessed when the northern storm should drive the thunder of the great lake directly into the Grand Portal. Suppose this to have happened while I was a tenant—it was really what I desired. An avalanche of rock sufficient to have crushed a city, had fallen just outside of the left arch, and laid rudely piled to the height of fifty feet. Thither would I have retreated to witness the bloodless battle of the elements; for a long war has been waged between waves and rocks, in which the rocks have so far been obliged to yield. Morning came, and with the dawn myself and nephew were at our work of triangulating. Having completed the survey, and obtained geological specimens of great interest, we returned in the boat which had come from the party on shore, in the afternoon.

"I shall calculate my observations, make drawings of ground-plan and elevations, and include them in my report to Dr. Jackson, and through him to the government, that, if they are found worthy of it, they may be published. I need hardly say, that such a curiosity, in such a climate, deserves a visit from the Cincinnatians during the hot months. Within half a mile is a boat harbor, a fine camping ground; and still another half a mile along the land beach, is the Chapel rock, and still nearer, a cascade. Beyond this again is a cascade leaping the top of the Pictured Rocks clear into the lake, and blowing a blast of wind in all directions from where it strikes the water sufficiently to propel a sail-boat. The Grand Portal is less extensive than the mammoth cave, being a mere fraction of it, but it has some compensating beauties. It has light and a fine breeze, and is at the same time as cool. You arrive at all of its beauties without fatigue, and enjoy, through its three open arches, the most extraordinary landscapes. Through the Grand Portal you see only the shoreless lake; through the western opening of the cross arch a limited but magnificent view of the lake and the Pictured Rocks overhanging its dark blue waters, on whose surface, when calm, those rocks are reflected into a symmetrical counterpart of the original. Through the eastern wing is seen also the lake and the Pictured Rocks dying away in well-marked perspective, as one point sinks behind the other, to the distance of ten miles. In the course of this perspective is the cascade of Chappel river, the Chappel rock, and the cascade of the winds. This cross arch is five hundred feet long, and so straight that light is seen through it from one side to the other. Mr. Schoolcraft passed through it with his boat: but the lake having fallen about four feet it is nearly dry, and the only entrance by water is by the Grand Portal."

The emigration to Michigan is now larger than for years past. Every part of the peninsula wears a new aspect to what it did five years since. The log houses have given way to fine brick and pine dwellings, ornamented with paint, and the windows bedecked with blinds or tasty curtains. The slab sheds are hardly known. Large barns have taken their places. Where the wolf prowled undisturbed, herds of sheep are seen—the bleating of the frolicsome lambs is heard, where the doe had full sway. You can scarcely ride on any road that has been open for five years, that is not lined on either side with grain. The whole country has the appearance of a fifty years' settlement. Enterprise and industry are everywhere prevalent.

The advantages that Michigan offers to the emigrant, are clearly set forth in the following statements :—

"First. We are surrounded with water communication for hundreds of miles, with noble streams that are navigable, and from its tributary waters into the lakes. From the mouth of each the canvass wafts the staff of life to the east.

"Second. We have avenues of art, binding with solid iron, as by links, the centre and southern counties from one extremity to the other, while the north for some distance equally enjoys the benefit of iron horses to forward their surplus to a shipping point.

"Third. No state can boast of better hydraulic power—the summit level being near the centre of the peninsula and its never-failing streams diverging to several points, as though the hand of an engineer had planned their serpentine courses to accommodate every county. View the lines of all the streams of every state in the Union, as laid down on their respective maps, and it is unequalled.

"Fourth. The soil is calculated for the production of almost every species of culture that could be desired north of the tropics.

"Fifth. Our school and university fund exceeds most of our neighbors, for land already sold and that remaining is mostly of the choicest kind. We have our school districts and rapidly-increasing school libraries, in every direction settled. Our state university is already in operation, with professors of the rarest talent for the higher branches. In point of advantages for education, New England or New York are not ahead. In point of intelligence, the last census of the United States places us ahead of nearly every sister state, with two exceptions, as having the least number who can neither write nor read.

"Sixth. A majority of our present population are mostly from New England and New York. The rapid increase of our exports exhibit their industry. No state in the Union, from the organization of the confederacy, has made such rapid strides. It is unparalleled in ancient or modern history.

"Seventh. Our state indebtedness, by the sale of state improvements, has been reduced. The interest on all acknowledged bonds will be paid on the first of January next, and a tax law has been passed to meet it hereafter.

"Eighth. Our exports exceed our imports the past year by over a million of dollars.

"Ninth. Our advantages for marketing our surplus products are far superior to any and all other states west of Buffalo, and they bear a much better price.

"Tenth. We have two months the advantage of our neighbors in the navigation of Lake Erie for eastern shipments, always at a season when produce bears the best prices. In the spring there is generally four weeks after the opening of the lower lakes, that the straits of Mackinac are obstructed with ice, which is invaluable either in a rising or falling market, and some four weeks after the first of November, when the passage to the upper lakes is hazardous, and craft going thither are in danger of not being able to return until the following spring. During all this time, both spring and fall, most of the craft make trips from Detroit to Buffalo, which throws hundreds of them in competition for freight, and transportation is thereby cheapened while it advances at the upper ports."

II. POPULATION AND HOUSING

Apportionment of the U.S. House of Representatives is on the basis of population; hence, the constitutional mandate to conduct a census of the nation's inhabitants every ten years. Despite efforts on the part of organizations inside and outside of government, some people do not get counted. Individuals are missed in the decennial censuses because they have no regular domicile where they can be reached, fail to report the fact of their existence to authorities, or deliberately conceal their existence for one reason or another. Published Census of Population statistics for states, counties, cities, villages, and other places represent the number of people that could be accounted for on census day, plus those that were found subsequently in "Were you counted?" campaigns.

The U.S. Bureau of the Census, the agency directly responsible for counting inhabitants in this country, uses the opportunity to collect a multitude of other information as well. Statistics on sex, race, age, and household relationship are derived from answers to relevant questions on census forms sent to every household; that is, the same forms used for the population count itself.

Census day has been set on April 1 since 1930. In 1920 it was January 1 and in 1910 it was April 15. Between 1830 and 1900, census day was June 1. For 1820, the first such tabulation from which data have been selected for reproduction in this abstract, census day was August 7.

Urban and rural were redefined in 1950. According to the current definition, the urban population comprises all persons living in (1) places of 2,500 inhabitants or more incorporated as cities, boroughs, or villages; (2) the densely populated, settled urban fringe, including both incorporated and unincorporated places, around cities of 50,000 or more; and (3) unincorporated places of 2,500 or more outside any urban fringe. According to the definition used prior to 1950, the urban population was limited to persons living in incorporated places or 2,500 inhabitants or more and in other areas classified as urban under special rules relating to population size and density. The rural population is that remaining of the total, after the above definition is applied.

The Census Bureau also estimates the population of states for intercensal years. These estimates, reproduced in Table II-1, are based upon formulae that incorporated data known births and deaths, school enrollments, automobile registration, and other factors thought to reflect population. Other techniques are used to produce estimates of net population flows, that is, net migration statistics shown in Table II-4.

Intercensal estimates of the population of Michigan counties for July 1, 1984 were prepared by the Department of Management and Budget of the State of Michigan. This state agency works closely with the U.S. Bureau of the Census in developing a technique for allocating the estimated state population totals among counties. The Bureau of the Census provides the July 1 population estimates for each state.

Another source of interim population estimates is the Bureau of Economic Analysis of the U.S. Department of Commerce. That agency is responsible for calculating personal and per capita personal income for states and counties. Consequently, a part of its program involves making population estimates. These may differ somewhat from the ones supplies by the state's Budget Bureau because of different data employed and variations in techniques.

II. POPULATION AND HOUSING

The U.S. Census of Housing is conducted on the occasion of the official population census. Since housing units must be located for the population count in any case, they also are counted at this time.

Each household is asked to answer several questions pertaining to its living quarters and these are the basis for the structural characteristics of housing units. Other data, such as number of housing units with Black head of household, are by-products of the population census.

Reliable interim data on housing for states and their political subdivisions are not available on a regular basis. Selected statistical for U.S. regions are published regularly by the U.S. Bureau of the Census in its Current Housing Reports series.

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TABLE II-2. CENSAL AND INTERCENSAL ESTIMATES OF THE TOTAL RESIDENT POPULATION OF MICHIGAN AND THE UNITED STATES, AND COMPONENTS OF CHANGE: 1810-1985

Year	Population	Change	Birth	Death	Net Migration	U.S. Population	Percentage of U.S.
1810	4,762					7,239,881	0.0658
1820	8,896	4,134				9,638,453	0.0923
1830	31,639	22,743				12,866,020	0.2459
1840	212,267	180,628				17,069,453	1.2435
1850	397,654	185,387				23,191,876	1.7146
1860	749,113	351,459				31,443,321	2.3824
1870	1,184,059	434,946				38,558,371	3.0708
1880	1,636,937	452,878				50,189,209	3.2615
1890	2,093,890	456,953				62,979,766	3.3247
1900	2,420,982	327,092				76,212,168	3.1766
1910	2,810,173	389,191	524,796	347,781	212,176	92,228,496	3.0470
1920	3,668,412	858,239	789,159	434,451	503,531	106,021,537	3.4601
1930	4,842,325	1,173,913	964,493	501,486	710,906	123,202,624	3.9304
1940	5,256,106	413,781	897,985	511,269	27,065	132,164,569	3.9769
1950[a]	6,371,766	1,115,660	1,305,535	548,591	358,716	151,325,798	4.2106
1951	6,545,000	173,234	206,267	72,766	39,733	153,981,000	4.2505
1952	6,708,000	163,000	175,143	59,160	47,017	156,393,000	4.2892
1953	6,852,000	144,000	180,402	60,608	24,207	158,956,000	4.3106
1954	7,024,000	172,000	187,536	61,392	45,856	161,884,000	4.3389
1955	7,236,000	212,000	194,199	61,897	79,698	165,069,000	4.3836
1956	7,465,000	229,000	201,181	62,720	90,539	168,088,000	4.4411
1957	7,569,000	104,000	207,278	64,394	-38,885	171,187,000	4.4215
1958	7,667,000	98,000	205,589	66,167	-41,422	174,149,000	4.4026
1959	7,767,000	100,000	200,496	66,356	-34,140	177,135,000	4.3848
1960[a]	7,823,194	56,194	147,915	50,384	-41,337	179,323,175	4.3626
1961	7,893,000	69,806	242,705	84,622	-88,277	182,973,000	4.3138
1962	7,933,000	40,000	187,808	68,712	-79,096	185,738,000	4.2711
1963	8,058,000	125,000	180,831	71,244	15,413	188,438,000	4.2762
1964	8,187,000	129,000	176,987	72,284	24,297	191,085,000	4.2845
1965	8,357,000	170,000	170,784	72,897	72,114	193,460,000	4.3198
1966	8,512,000	155,000	166,129	74,131	63,002	195,501,000	4.3539
1967	8,630,000	118,000	164,275	74,978	28,703	197,374,000	4.3724
1968	8,730,000	100,000	160,907	76,108	15,201	199,312,000	4.3801
1969	8,820,000	90,000	162,409	76,774	4,365	201,306,000	4.3814
1970[a]	8,881,826	61,826	125,797	57,427	-6,544	203,302,031	4.3688
1971	8,974,000	92,174	209,872	95,938	-21,760	206,827,000	4.3389
1972	9,029,000	55,000	154,549	78,303	-21,247	209,284,000	4.3142
1973	9,078,000	49,000	144,202	78,866	-16,336	211,357,000	4.2951
1974	9,118,000	40,000	139,482	77,333	-22,150	213,342,000	4.2739
1975	9,118,000	0	135,673	75,333	-60,340	215,465,000	4.2318
1976	9,129,000	11,000	132,655	75,162	-46,493	217,563,000	4.1960
1977	9,171,000	42,000	134,897	74,973	-17,925	219,760,000	4.1732
1978	9,218,000	47,000	138,609	74,459	-17,151	222,095,000	4.1505
1979	9,266,000	48,000	141,627	74,127	-19,501	224,567,000	4.1262
1980[a]	9,262,078	-3,922	108,517	55,516	-56,923	226,545,805	4.0884
1981	9,210,520	-51,558	179,161	94,236	-136,484	229,307,000	4.0167
1982	9,118,643	-91,877	139,265	75,677	-155,465	231,479,000	3.9393
1983	9,055,765	-62,878	135,488	76,088	-122,279	233,722,000	3.8746
1984	9,062,023	6,258	134,404	76,520	-51,626	236,108,000	3.8381
1985	9,088,326	26,303	136,917	77,518	-33,096	238,531,000	3.8101

SOURCE: Michigan Department of Management and Budget, special release.

a. Census of Population, April.

TABLE II-3. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1984

Place	Population	
	1980	1984
Addison	655	709
Adrian	21,276	20,356
Ahmeek	210	205
Akron	538	519
Alanson	508	506
Albion	11,059	10,481
Algonac	4,412	4,386
Allegan	4,576	4,658
Allen	266	241
Allen Park	34,196	31,619
Alma	9,652	9,303
Almont	1,857	1,868
Alpena	12,214	11,535
Alpha	229	208
Ann Arbor	107,969	107,673
Applegate	257	223
Armada	1,392	1,337
Ashley	570	683
Athens	960	948
Au Gres	768	786
Auburn	1,921	1,727
Augusta	913	924
Bad Axe	3,184	3,190
Baldwin	674	768
Bancroft	618	661
Bangor	2,001	2,056
Baraga	1,055	1,123
Baroda	627	571
Barryton	422	469
Barton Hills	357	378
Battle Creek	56,339	54,349
Bay City	41,593	39,935
Bear Lake	388	367
Beaverton	1,023	1,130
Belding	5,634	5,626
Bellaire	1,063	1,141
Belleville	3,366	3,213
Bellevue	1,289	1,243
Benton Harbor	14,707	14,246
Benzonia	466	446
Berkley	18,637	17,618
Berrien Springs	2,042	1,930
Bessemer	2,553	2,393
Beulah	454	448
Beverly Hills	11,598	10,900
Big Rapids	14,361	13,515
Bingham Farms	529	653
Birch Run	1,196	1,153
Birmingham	21,689	20,739
Blissfield	3,107	3,110
Bloomfield Hills	3,985	3,813
Bloomingdale	537	516
Boyne City	3,348	3,387
Boyne Falls	378	358
Breckenridge	1,495	1,405
Breedsville	244	255
Bridgman	2,235	2,203
Brighton	4,268	4,404
Britton	693	705
Bronson	2,271	2,142
Brooklyn	1,110	1,097
Brown City	1,163	1,111
Buchanan	5,142	5,067
Buckley	357	387
Burlington	367	352
Burr Oak	853	874
Burton	29,976	29,144
Byron	689	629
Cadillac	10,199	10,509
Caledonia	722	832
Calumet	1,013	1,021
Camden	420	389
Capac	1,377	1,425
Carleton	2,786	2,601
Carney	236	269
Caro	4,317	4,074
Carson City	1,229	1,198
Carsonville	622	691
Caseville	851	906
Casnovia	348	350
Caspian	1,038	986
Cass City	2,258	2,141
Cassopolis	1,933	1,838
Cedar Springs	2,615	2,767
Cement City	539	567
Center Line	9,293	8,936
Central Lake	895	916
Centreville	1,202	1,274
Charlevoix	3,296	3,217
Charlotte	8,251	8,625

TABLE II-3. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1984 (cont.)

Place	Population		Place	Population	
	1980	1984		1980	1984
Chatham	315	255	Eagle	155	151
Cheboygan	5,106	5,111	East Detroit	38,280	35,824
Chelsea	3,816	3,898	East Grand Rapids	10,914	11,427
Chesaning	2,656	2,485	East Jordan	2,185	2,059
Clare	3,300	3,091	East Lake	514	486
Clarkston	968	951	East Lansing	51,392	46,739
Clarksville	348	410	East Tawas	2,584	2,727
Clawson	15,103	14,356	Eaton Rapids	4,510	4,215
Clayton	396	362	Eau Claire	573	517
Clifford	406	345	Ecorse	14,447	13,405
Climax	619	628	Edmore	1,176	1,268
Clinton	2,342	2,340	Edwardsburg	1,135	1,064
Clio	2,669	2,541	Elberta	556	502
Coldwater	9,461	8,829	Elk Rapids	1,504	1,437
Coleman	1,429	1,467	Elkton	952	968
Coloma	1,833	1,758	Ellsworth	436	420
Colon	1,190	1,140	Elsie	1,022	905
Columbiaville	953	1,040	Emmett	285	262
Concord	900	912	Empire	340	361
Constantine	1,680	1,751	Escanaba	14,355	14,391
Coopersville	2,889	2,919	Essexville	4,378	4,415
Copemish	287	262	Estral Beach	463	491
Copper City	244	211	Evart	1,945	2,222
Corunna	3,206	3,038	Fairgrove	691	661
Croswell	2,073	2,027	Farmington	11,022	10,148
Crystal Falls	1,965	1,990	Farmington Hills	58,056	63,038
Custer	341	301	Farwell	804	895
Daggett	274	263	Fennville	934	954
Dansville	479	485	Fenton	8,098	8,112
Davison	6,087	5,766	Ferndale	26,227	25,195
De Tour Village	466	454	Ferrysburg	2,440	2,486
De Witt	3,165	3,397	Fife Lake	402	403
Dearborn	90,660	86,960	Flat Rock	6,853	6,522
Dearborn Heights	67,706	63,081	Flint	159,611	149,007
Decatur	1,915	1,968	Flushing	8,467	8,312
Deckerville	887	914	Forestville	159	159
Deerfield	957	958	Fountain	195	207
Detroit	1,202,493	1,088,973	Fowler	1,021	970
Dexter	1,524	1,482	Fowlerville	2,289	2,319
Dimondale	1,008	1,042	Frankenmuth	3,753	3,714
Douglas	948	904	Frankfort	1,603	1,509
Dowagiac	6,307	6,151	Franklin	2,864	2,680
Dryden	650	651	Fraser	14,560	14,028
Dundee	2,575	2,510	Free Soil	212	208
Durand	4,206	4,025	Freeport	479	496

TABLE II-3. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1984 (cont.)

	Population			Population	
Place	1980	1984	Place	1980	1984
Fremont	3,672	3,648	Highland Park	27,909	25,890
Fruitport	1,143	1,155	Hillman	373	508
Gaastra	404	401	Hillsdale	7,432	7,412
Gagetown	428	422	Holland	26,281	28,154
Gaines	440	471	Holly	4,874	5,556
Galesburg	1,822	1,969	Homer	1,791	1,701
Galien	692	637	Honor	281	277
Garden	296	326	Hopkins	536	558
Garden City	35,640	33,255	Houghton	7,512	7,108
Gaylord	3,011	3,126	Howard City	1,118	1,386
Gibraltar	4,458	4,459	Howell	6,976	6,848
Gladstone	4,533	5,085	Hubbardston	421	427
Gladwin	2,479	2,691	Hudson	2,545	2,757
Gobles	816	825	Hudsonville	4,884	5,198
Goodrich	795	831	Huntington Woods	6,937	6,454
Grand Beach	227	195	Imlay City	2,495	2,246
Grand Blanc	6,848	6,879	Inkster	35,190	33,040
Grand Haven	11,763	11,859	Ionia	5,920	5,876
Grand Ledge	6,920	7,074	Iron Mountain	8,341	8,494
Grand Rapids	181,843	183,000	Iron River	2,426	2,384
Grandville	12,412	13,165	Ironwood	7,741	7,499
Grant	683	781	Ishpeming	7,538	7,413
Grass Lake	962	951	Ithaca	2,950	2,809
Grayling	1,792	1,781	Jackson	39,739	37,698
Greenville	8,019	8,430	Jonesville	2,185	2,206
Grosse Pointe	5,901	5,785	Kalamazoo	79,722	77,226
Grosse Pte Farms	10,551	9,607	Kaleva	445	378
Grosse Pte Park	14,437	13,811	Kalkaska	1,654	1,652
Grosse Pte Shores	3,122	2,832	Keego Harbor	3,083	3,020
Grosse Pte Woods	18,886	17,328	Kent City	860	859
Hamtramck	21,300	19,510	Kentwood	30,438	34,113
Hancock	5,122	4,757	Kinde	600	575
Hanover	490	473	Kingsford	5,290	5,421
Harbor Beach	2,000	1,896	Kingsley	664	720
Harbor Springs	1,567	1,580	Kingston	417	374
Harper Woods	16,361	15,106	Laingsburg	1,145	1,246
Harrietta	139	154	Lake Angelus	397	485
Harrison	1,700	1,755	Lake Ann	235	240
Harrisville	559	490	Lake City	843	935
Hart	1,888	1,773	Lake Linden	1,181	1,193
Hartford	2,493	2,597	Lake Odessa	2,171	2,209
Hastings	6,418	6,385	Lake Orion	2,907	2,765
Hazel Park	20,914	20,294	Lakeview	1,139	1,306
Hersey	364	441	Lakewood Club	695	737
Hesperia	876	838	Lanse	2,500	2,398

TABLE II-3. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1984 (cont.)

Place	Population 1980	Population 1984	Place	Population 1980	Population 1984
Lansing	130,414	127,972	Melvin	171	160
Lapeer	6,198	5,848	Melvindale	12,322	11,661
Lathrup Village	4,639	4,479	Memphis	1,171	1,124
Laurium	2,678	2,578	Mendon	951	961
Lawrence	903	1,036	Menominee	10,099	9,706
Lawton	1,558	1,853	Merrill	851	816
Le Roy	293	324	Mesick	374	468
Lennon	600	611	Metamora	552	626
Leonard	423	421	Michiana	333	346
Leslie	2,110	2,205	Middleville	1,797	1,916
Lexington	765	716	Midland	37,269	37,921
Lincoln	361	332	Milan	4,182	4,128
Lincoln Park	45,105	43,201	Milford	5,041	4,978
Linden	2,174	2,199	Millersburg	231	245
Litchfield	1,353	1,394	Millington	1,237	1,191
Livonia	104,814	100,363	Minden City	284	283
Lowell	3,707	3,856	Mineral Hills	257	276
Ludington	8,937	8,813	Monroe	23,531	21,845
Luna Pier	1,443	1,520	Montague	2,332	2,364
Luther	414	476	Montgomery	408	448
Lyons	708	777	Montrose	1,706	1,771
Mackinac Island	479	467	Morenci	2,110	2,249
Mackinaw City	820	898	Morley	507	534
Madison Heights	35,375	34,358	Morrice	733	734
Mancelona	1,432	1,436	Mount Clemens	18,991	18,755
Manchester	1,686	1,793	Mount Morris	3,246	3,070
Manistee	7,665	7,400	Mount Pleasant	23,746	22,401
Manistique	3,962	3,866	Muir	698	664
Manton	1,212	1,431	Mulliken	550	634
Maple Rapids	683	712	Munising	3,083	2,919
Marcellus	1,134	1,167	Muskegon	40,823	39,553
Marine City	4,414	4,312	Muskegon Heights	14,611	14,258
Marion	816	821	Nashville	1,628	1,674
Marlette	1,761	1,629	Negaunee	5,189	5,129
Marquette	23,288	21,666	New Baltimore	5,439	6,080
Marshall	7,201	6,986	New Buffalo	2,821	2,605
Martin	447	484	New Era	534	565
Marysville	7,485	7,485	New Haven	1,871	1,848
Mason	6,019	6,158	New Lothrop	646	576
Mattawan	2,143	2,492	Newaygo	1,271	1,472
Maybee	490	508	Newberry	2,120	1,868
Mayville	958	928	Niles	13,115	12,440
McBain	519	550	North Adams	565	502
McBride	252	243	North Branch	896	808
Mecosta	428	491	North Muskegon	4,024	3,888

TABLE II-3. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1984 (cont.)

	Population			Population	
Place	1980	1984	Place	1980	1984
Northport	611	633	Portage	38,157	39,837
Northville	5,689	5,967	Portland	3,963	3,921
Norton Shores	22,025	21,375	Posen	270	263
Norway	2,919	2,956	Potterville	1,502	1,548
Novi	22,525	24,785	Powers	490	425
Oak Park	31,537	30,514	Prescott	332	359
Oakley	412	394	Quincy	1,569	1,581
Olivet	1,604	1,632	Ravenna	951	947
Omer	403	448	Reading	1,203	1,199
Onaway	1,084	979	Reed City	2,221	2,364
Onekama	582	562	Reese	1,645	1,616
Onsted	670	633	Richland	486	489
Ontonagon	2,182	2,109	Richmond	3,536	3,547
Orchard Lake	1,798	1,527	River Rouge	12,912	11,970
Ortonville	1,190	1,248	Riverview	14,569	14,119
Otisville	682	698	Rochester	7,203	7,824
Otsego	3,802	3,922	Rochester Hills[a]	--	44,029
Otter Lake	456	474	Rockford	3,324	3,664
Ovid	1,712	1,616	Rockwood	3,346	3,109
Owendale	308	289	Rogers City	3,923	3,806
Owosso	16,455	15,614	Romeo	3,509	3,655
Oxford	2,746	2,646	Romulus	24,857	23,824
Parchment	1,817	1,793	Roosevelt Park	4,015	3,738
Parma	873	1,029	Roscommon	834	1,073
Paw Paw	3,211	3,686	Rose City	661	674
Peck	606	580	Rosebush	336	335
Pellston	565	558	Roseville	54,311	52,043
Pentwater	1,165	1,176	Rothbury	522	561
Perrinton	448	474	Royal Oak	70,893	67,436
Perry	2,051	2,138	Saginaw	77,508	73,694
Petersburg	1,222	1,224	Saline	6,483	6,593
Petoskey	6,097	6,089	Sand Lake	388	426
Pewamo	488	500	Sandusky	2,216	2,100
Pierson	216	231	Sanford	864	932
Pegeon	1,247	1,275	Sarnac	1,421	1,464
Pinckney	1,390	1,471	Saugatuck	1,079	1,089
Pinconning	1,430	1,418	Sault Ste Marie	14,448	13,941
Plainwell	3,751	3,680	Schoolcraft	1,359	1,574
Pleasant Ridge	3,217	2,962	Scottville	1,241	1,300
Plymouth	9,986	10,131	Sebewaing	2,046	2,008
Pontiac	76,715	70,973	Shelby	1,624	1,494
Port Austin	839	847	Shepherd	1,534	1,715
Port Hope	369	339	Sheridan	664	679
Port Huron	33,981	33,367	Sherwood	353	411
Port Sanilac	598	634	Shoreham	742	793

TABLE II-3. POPULATION OF MICHIGAN INCORPORATED PLACES: CENSUS 1980 AND 1 JULY 1984.(cont.)

	Population			Population	
Place	1980	1984	Place	1980	1984
South Haven	5,943	6,091	Tustin	264	300
South Lyon	5,214	5,239	Twining	196	222
South Range	861	851	Ubly	862	878
South Rockwood	1,353	1,201	Union City	1,667	1,591
Southfield	75,568	73,405	Unionville	578	583
Southgate	32,058	30,742	Utica	5,282	5,648
Sparta	3,373	3,589	Vandalia	447	400
Spring Lake	2,731	2,749	Vanderbilt	525	554
Springfield	5,917	5,737	Vassar	2,727	2,745
Springport	675	679	Vermontville	832	900
St. Charles	2,276	2,134	Vernon	1,008	1,024
St. Clair	4,780	4,766	Vicksburg	2,224	2,291
St. Clair Shores	76,210	71,695	Wakefield	2,591	2,585
St. Ignace	2,632	2,604	Waldron	570	558
St. Johns	7,376	7,374	Walker	15,088	15,727
St. Joseph	9,622	9,288	Walkerville	296	327
St. Louis	4,107	3,972	Walled Lake	4,748	4,717
Stambaugh	1,442	1,549	Warren	161,134	152,035
Standish	1,264	1,204	Watervliet	1,867	1,813
Stanton	1,315	1,398	Wayland	2,023	2,023
Stanwood	209	235	Wayne	21,159	21,138
Stephenson	967	899	Webberville	1,535	1,672
Sterling	457	406	West Branch	1,785	1,916
Sterling Heights	108,999	109,440	Westland	84,603	81,143
Stevensville	1,268	1,248	Westphalia	896	825
Stockbridge	1,213	1,293	White Cloud	1,101	1,109
Sturgis	9,468	9,547	White Pigeon	1,478	1,630
Sunfield	591	661	Whitehall	2,856	2,863
Suttons Bay	504	523	Whittemore	438	428
Swartz Creek	5,013	4,879	Williamston	2,981	2,895
Sylvan Lake	1,949	1,912	Wixom	6,705	6,965
Tawas City	1,967	2,087	Wolverine	364	414
Taylor	77,568	73,179	Wolverine Lake	4,968	4,982
Tecumseh	7,320	7,181	Woodhaven	10,902	11,125
Tekonsha	755	795	Woodland	431	435
Thompsonville	331	339	Wyandotte	34,006	31,888
Three Oaks	1,774	1,715	Wyoming	59,616	61,559
Three Rivers	7,015	7,698	Yale	1,814	1,770
Traverse City	15,516	15,406	Ypsilanti	24,031	23,305
Trenton	22,762	21,263	Zeeland	4,764	4,768
Troy	67,102	67,403	Zilwaukee	2,201	2,134
Turner	187	207	MICHIGAN	9,262,044	9,078,503

SOURCE: U.S. Department of Commerce, Bureau of the Census, Local Population Estimates--Michigan, (Washington, D.C.: September 1986), Series P-26, No. 84-ENC-SC, pp. 59-80.

a. Rochester Hills was incorporated in 1984.

TABLE II-1. TOTAL AND URBAN AND RURAL POPULATION OF MICHIGAN AND THE UNITED STATES: CENSUS 1810-1980

Year	Urban		Rural		Total	
	Michigan	United States	Michigan	United States	Michigan	United States
	Previous urban definition					
1810	0	525,459	4,762	6,714,422	4,762	7,239,881
1820	0	693,255	8,896	8,945,198	8,896	9,638,453
1830	0	1,127,247	31,639	11,738,773	31,639	12,866,020
1840	9,102	1,845,055	203,165	15,224,398	212,267	17,069,453
1850	29,025	3,543,716	368,629	19,648,160	397,654	23,191,876
1860	99,701	6,216,518	649,412	25,226,803	749,113	31,443,321
1870	237,985	9,902,361	946,074	28,656,010	1,184,059	38,558,371
1880	405,412	14,129,736	1,231,525	36,059,474	1,636,937	50,189,209
1890	730,294	22,106,265	1,363,596	40,873,501	2,093,890	62,979,766
1900	952,323	30,214,832	1,468,659	45,997,336	2,420,982	76,212,168
1910	1,327,044	42,064,001	1,483,129	50,164,495	2,810,173	92,228,496
1920	2,241,560	54,253,282	1,426,852	51,768,255	3,668,412	106,021,537
1930	3,302,075	69,160,599	1,540,250	54,042,025	4,842,325	123,202,624
1940	3,454,867	74,705,338	1,801,239	57,459,231	5,256,106	132,164,569
1950	4,166,165	90,128,194	2,205,601	61,197,604	6,371,766	151,325,798
1960	5,085,882	113,056,353	2,737,312	66,266,822	7,823,194	179,323,175
	Current urban definition					
1950	4,503,084	96,846,817	1,868,682	54,478,981	6,371,766	151,325,798
1960	5,739,132	125,268,750	2,084,062	54,054,425	7,823,194	179,323,175
1970	6,553,773	149,324,930	2,321,310	53,886,996	8,875,083[a]	203,211,926
1980	6,551,551	167,050,992	2,710,527	59,494,813	9,262,078	226,545,805

SOURCE: Bureau of the Census, U.S. Census of Population: Number of Inhabitants, Summary (Washington, D.C.: 1981), Final Report PC80-1-A1, Table 3, and Michigan Summary, PC80-1-A24, Table 1.

a. Official population count not corrected for errors found after tabulations were completed. The corrected count is 8,879,862.

NOTE: Population figures for Michigan prior to 1840 Census are for the Territory of Michigan.

TABLE II-4. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1985 ESTIMATES

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1985 estimates
Alcona	4,989	5,463	5,856	6,352	7,113	9,740	10,000
Alger	9,327	10,167	10,007	9,250	8,568	9,225	8,800
Allegan	38,974	41,839	47,493	57,729	66,575	81,555	85,300
Alpena	18,574	20,766	22,189	28,556	30,708	32,315	31,100
Antrim	9,979	10,964	10,721	10,373	12,612	16,194	16,800
Arenac	8,007	9,233	9,644	9,860	11,149	14,706	15,000
Baraga	9,168	9,356	8,037	7,151	7,789	8,484	8,200
Barry	20,928	22,613	26,183	31,738	38,166	45,781	46,900
Bay	69,474	74,981	88,461	107,042	117,339	119,881	115,300
Benzie	6,587	7,800	8,306	7,834	8,593	11,205	11,200
Berrien	81,066	89,117	115,702	149,865	163,940	171,276	163,800
Branch	23,950	25,845	30,202	34,903	37,906	40,188	38,800
Calhoun	87,043	94,206	120,813	138,858	141,963	141,557	136,500
Cass	20,888	21,910	28,185	36,932	43,312	49,499	48,400
Charlevoix	11,981	13,031	13,475	13,421	16,541	19,907	19,800
Cheboygan	11,502	13,644	13,731	14,550	16,573	20,649	20,700
Chippewa	25,047	27,807	29,206	32,655	32,412	29,029	29,000
Clare	7,032	9,163	10,253	11,647	16,695	23,822	24,700
Clinton	24,174	26,671	31,195	37,969	48,492	55,893	55,300
Crawford	3,097	3,765	4,151	4,971	6,482	9,465	9,900
Delta	32,280	34,037	32,913	34,298	35,924	38,947	38,800
Dickinson	29,941	28,731	24,844	23,917	23,753	25,341	26,500
Eaton	31,728	34,124	40,023	49,684	68,892	88,337	89,900
Emmet	15,109	15,791	16,534	15,904	18,331	22,992	23,700
Genesee	211,641	227,944	270,963	374,313	445,589	450,449	433,900

TABLE II-4. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1985 ESTIMATES (cont.)

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1985 estimates
Gladwin	7,424	9,385	9,451	10,769	13,471	19,957	21,400
Gogebic	31,577	31,797	27,053	24,370	20,676	19,686	19,000
Grand Traverse	20,011	23,390	28,598	33,490	39,175	54,899	57,600
Gratiot	30,252	32,205	33,429	37,012	39,246	40,448	39,400
Hillsdale	27,417	29,092	31,916	34,742	37,171	42,071	41,800
Houghton	52,851	47,631	39,771	35,654	34,652	37,872	37,800
Huron	31,132	32,584	33,149	34,006	34,083	36,459	36,300
Ingham	116,587	130,616	172,941	211,296	261,039	275,520	273,200
Ionia	35,093	35,710	38,158	43,132	45,848	51,815	52,800
Iosco	7,517	8,560	10,906	16,505	24,905	28,349	30,300
Iron	20,805	20,243	17,692	17,184	13,813	13,635	14,100
Isabella	21,126	25,982	28,964	35,348	44,594	54,110	54,200
Jackson	92,304	93,108	107,925	131,994	143,274	151,495	143,700
Kalamazoo	91,368	100,085	126,707	169,712	201,550	212,378	215,500
Kalkaska	3,799	5,159	4,597	4,382	5,372	10,952	11,600
Kent	240,511	246,338	288,292	363,187	411,044	444,506	467,800
Keweenaw	5,076	4,004	2,918	2,417	2,264	1,963	2,100
Lake	4,066	4,798	5,257	5,338	5,661	7,711	8,500
Lapeer	28,348	32,116	35,794	41,926	52,361	70,038	69,300
Leelanau	8,206	8,436	8,647	9,321	10,872	14,007	14,700
Lenawee	49,849	53,110	64,629	77,789	81,951	89,948	88,400
Livingston	19,274	20,863	26,725	38,233	58,967	100,289	101,800
Luce	6,528	7,423	8,147	7,827	6,789	6,659	5,900
Mackinac	8,783	9,438	9,287	10,853	9,660	10,178	10,300
Macomb	77,146	107,638	184,961	405,804	625,309	694,600	689,700

TABLE II-4. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1985 ESTIMATES (cont.)

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1985 estimates
Manistee	17,409	18,450	18,524	19,042	20,393	23,019	22,300
Marquette	44,076	47,144	47,654	56,154	64,686	74,101	72,000
Mason	18,756	19,378	20,474	21,929	22,612	26,365	26,400
Mecosta	15,738	16,902	18,968	21,051	27,992	36,961	37,500
Menominee	23,652	24,883	25,299	24,685	24,587	26,201	25,900
Midland	19,150	27,094	35,662	51,450	63,769	73,578	75,200
Missaukee	6,992	8,034	7,458	6,784	7,126	10,009	10,800
Monroe	52,485	58,620	75,666	101,120	119,215	134,659	130,700
Montcalm	27,471	28,581	31,013	35,795	39,660	47,555	50,300
Montmorency	2,814	3,840	4,125	4,424	5,247	7,492	7,800
Muskegon	84,630	94,501	121,545	149,943	157,426	157,589	156,700
Newaygo	17,029	19,286	21,567	24,160	27,992	34,917	36,800
Oakland	211,251	254,068	396,001	690,259	907,871	1,011,793	1,014,100
Oceana	13,805	14,812	16,105	16,547	17,984	22,002	22,500
Ogemaw	6,595	8,720	9,345	9,680	11,903	16,436	17,400
Ontonagon	11,114	11,359	10,282	10,584	10,548	9,861	9,200
Osceola	12,806	13,309	13,797	13,595	14,838	18,928	20,200
Oscoda	1,728	2,543	3,134	3,447	4,726	6,858	7,000
Otsego	5,554	5,827	6,435	7,545	10,422	14,993	15,400
Ottawa	54,858	59,660	73,751	98,719	128,181	157,174	167,200
Presque Isle	11,330	12,250	11,996	13,117	12,836	14,267	13,900
Roscommon	2,055	3,668	5,916	7,200	9,892	16,374	18,400
Saginaw	120,717	130,468	153,515	190,752	219,743	228,059	216,900
St. Clair	67,563	76,222	91,599	107,201	120,175	138,802	138,600
St. Joseph	30,618	31,749	35,071	42,332	47,392	56,083	58,500

TABLE II-4. POPULATION OF MICHIGAN COUNTIES: CENSUS 1930, 1940, 1950, 1960, 1970, 1980; AND 1 JULY 1985 ESTIMATES (cont.)

County	1930	1940	1950	1960	1970	1980	Preliminary[a] July 1, 1985 estimates
Sanilac	27,751	30,114	30,837	32,314	35,181	40,789	40,000
Schoolcraft	8,451	9,524	9,148	8,953	8,226	8,575	8,400
Shiawassee	39,517	41,207	45,967	53,446	63,075	71,140	68,500
Tuscola	32,934	35,694	38,258	43,305	48,603	56,961	55,000
Van Buren	32,637	35,111	39,184	48,395	56,173	66,814	66,600
Washtenaw	65,530	80,810	134,606	172,440	234,103	264,748	262,300
Wayne	1,888,946	2,015,623	2,435,235	2,666,297	2,670,368	2,337,891	2,174,300
Wexford	16,827	17,976	18,628	18,466	19,717	25,102	26,300
TOTAL	4,842,325	5,256,106	6,371,766	7,823,194	8,881,826	9,262,078	9,088,300

SOURCE: Bureau of the Census, *U.S. Census of Population: 1940, Number of Inhabitants, Michigan* (Washington, D.C.: 1941), Table 5, *U.S. Census of Population: 1950, Number of Inhabitants*, (Washington, D.C.: 1951), Table 5,; *U.S. Census of Population: 1960, Number of Inhabitants, Michigan* (Washington, D.C.: 1961), Table 6, and *U.S. Census of Population: 1970, Number of Inhabitants, Michigan* (Washington, D.C.: 1971), Table 9; and Bureau of the Census, *1980 Census of Population, Number of Inhabitants* (Washington, D.C.: 1982, Table 2; and Budget, Information System Division, special release; and Michigan Department of Management and Budget, special release.

a. The preliminary estimates are subject to change when more data become available.

TABLE II-5. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1985 ESTIMATES

County	1970 to 1980				1980 to Preliminary 1 July 1985 estimates[a]			
	Population change	Births	Deaths	Net migration	Population change	Births	Deaths	Net migration
Alcona	2,627	1,026	1,146	2,747	200	600	700	300
Alger	657	1,322	1,033	368	-500	700	500	-600
Allegan	14,980	12,286	6,038	8,732	3,700	7,100	3,300	-100
Alpena	1,607	4,885	2,700	578	-1,200	2,400	1,400	-2,200
Antrim	3,582	2,268	1,647	2,961	600	1,300	1,000	300
Arenac	3,557	2,060	1,421	2,918	300	1,200	900	0
Baraga	695	1,323	1,004	376	-300	600	500	-400
Barry	7,615	6,409	3,589	4,795	1,100	3,600	1,800	-600
Bay	2,542	19,183	9,706	-6,935	-4,600	9,200	5,000	-8,700
Benzie	2,612	1,427	1,221	2,406	-100	900	700	-300
Berrien	7,336	29,338	15,414	6,588	-8,400	13,400	7,700	-14,100
Branch	2,282	6,021	3,784	45	-1,400	3,400	2,000	-2,800
Calhoun	-406	22,600	12,946	-10,060	-5,100	10,900	6,500	-9,400
Cass	6,187	7,137	4,058	3,108	-1,100	3,500	2,200	-2,400
Charlevoix	3,366	2,907	1,859	2,318	-200	1,800	1,100	-900
Cheboygan	4,076	3,052	2,004	3,028	0	1,700	1,100	-600
Chippewa	-3,383	6,379	2,957	-6,805	0	2,100	1,500	-600
Clare	7,127	2,872	2,353	6,608	900	1,900	1,400	500
Clinton	7,401	8,185	3,229	2,445	-600	4,500	1,600	-3,400
Crawford	2,983	1,293	853	2,543	400	900	500	0
Delta	3,023	5,993	4,055	1,085	-100	3,000	1,800	-1,300
Dickinson	1,588	3,305	3,066	1,349	1,200	2,000	1,600	800
Eaton	19,445	11,307	5,065	13,203	1,600	6,500	3,000	-2,000
Emmet	4,661	3,183	2,028	3,506	700	1,900	1,200	0
Genesee	4,860	78,036	32,681	-40,495	-16,500	36,900	17,500	-35,900

TABLE II-5. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1985 ESTIMATES (cont.)

	1970 to 1980				1980 to Preliminary 1 July 1985 estimates[a]			
County	Population change	Births	Deaths	Net migration	Population change	Births	Deaths	Net migration
Gladwin	6,486	2,387	1,754	5,853	1,400	1,500	1,100	1,000
Gogebic	-990	2,513	3,041	-462	-600	1,200	1,500	-400
Grand Traverse	15,724	7,440	3,910	12,194	2,700	4,900	2,300	100
Gratiot	1,202	6,740	3,579	-1,959	-1,000	3,100	2,000	-2,100
Hillsdale	4,900	6,214	3,655	2,341	-200	3,300	2,000	-1,500
Houghton	3,220	5,033	4,755	2,942	0	2,700	2,300	-500
Huron	2,376	5,626	4,105	855	-200	2,900	2,000	-1,000
Ingham	14,481	44,506	16,522	-13,503	-2,300	23,000	8,700	-16,600
Ionia	5,967	8,434	4,199	1,732	900	4,700	2,100	-1,700
Iosco	3,444	5,487	2,566	523	2,000	3,000	1,500	500
Iron	-178	1,529	2,109	402	500	900	1,000	700
Isabella	9,516	7,162	3,013	5,367	0	3,700	1,600	-2,000
Jackson	8,221	22,559	12,712	-1,626	-7,700	11,000	6,700	-12,100
Kalamazoo	10,828	30,173	13,922	-5,423	3,100	16,600	7,800	-5,800
Kalkaska	5,580	1,519	913	4,974	700	1,100	500	100
Kent	33,462	70,882	34,662	-2,758	23,300	44,400	18,300	-2,800
Keweenaw	-301	271	352	-220	200	100	200	200
Lake	2,050	970	1,102	2,182	800	600	600	900
Lapeer	17,677	10,432	4,447	11,691	-700	5,700	2,500	-4,000
Leelanau	3,135	1,627	1,225	2,733	700	1,000	700	400
Lenawee	7,997	14,657	7,277	617	-1,500	7,000	3,700	-4,800
Livingston	41,322	11,569	5,001	34,754	1,600	7,400	3,000	-2,800
Luce	-130	1,024	738	-416	-700	500	400	-800
Mackinac	518	1,455	1,148	211	200	800	600	0
Macomb	69,291	96,355	40,065	13,001	-4,900	48,700	25,800	-27,900

TABLE II-5. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1985 ESTIMATES (cont.)

	1970 to 1980				1980 to Preliminary 1 July 1985 estimates[a]			
County	Population change	Births	Deaths	Net migration	Population change	Births	Deaths	Net migration
Manistee	2,626	2,903	2,626	2,349	-700	1,500	1,300	-800
Marquette	9,415	12,781	5,380	2,014	-2,000	6,600	2,600	-6,100
Mason	3,753	3,493	2,604	2,864	0	2,100	1,400	-600
Mecosta	8,969	4,680	2,446	6,735	600	2,300	1,300	-500
Menominee	1,614	3,538	2,820	896	-300	2,100	1,500	-1,000
Midland	9,809	11,222	4,001	2,588	1,600	6,000	2,300	-2,100
Missaukee	2,883	1,443	885	2,325	800	1,000	500	200
Monroe	15,444	20,130	8,970	4,284	-4,000	9,900	4,800	-9,000
Montcalm	7,895	7,574	4,420	4,741	2,700	4,200	2,300	900
Montmorency	2,245	947	841	2,139	300	600	500	200
Muskegon	163	25,745	13,599	-11,983	-900	13,600	7,100	-7,400
Newaygo	6,925	5,024	3,142	5,043	1,900	3,000	1,700	600
Oakland	103,922	137,088	65,304	32,138	2,300	72,500	38,600	-31,600
Oceana	4,018	3,473	2,077	2,622	500	2,000	1,100	-500
Ogemaw	4,533	2,114	1,834	4,253	1,000	1,400	1,100	600
Ontonagon	-687	1,590	1,227	-1,050	-600	600	600	-700
Osceola	4,090	2,901	1,852	3,041	1,300	1,700	900	600
Oscoda	2,132	762	781	2,151	100	600	500	0
Otsego	4,571	2,205	1,067	3,430	400	1,400	700	-300
Ottawa	28,993	23,300	9,110	14,800	10,000	14,400	5,100	800
Presque Isle	1,431	2,056	1,342	717	-400	1,100	600	-600
Roscommon	6,482	1,690	1,838	6,630	2,000	1,200	1,200	2,100
Saginaw	8,316	39,289	17,738	-13,235	-11,100	18,500	8,900	-20,700
St. Clair	18,627	20,861	12,350	10,116	-200	10,800	6,400	-4,500
St. Joseph	8,691	8,866	4,948	4,773	2,400	4,900	2,700	300

TABLE II-7. PERCENTAGE OF POPULATION 65 AND OVER FOR MICHIGAN COUNTIES: CENSUS 1970 AND 1980

County	Percentage		County	Percentage	
	1970	1980		1970	1980
Alcona	17.1	20.56	Lake	20.6	21.09
Alger	11.1	13.02	Lapeer	7.7	7.14
Allegan	9.4	10.29	Leelanau	12.2	13.31
Alpena	8.5	11.76	Lenawee	9.2	10.20
Antrim	13.9	15.09	Livingston	7.7	7.02
Arenac	12.5	13.89	Luce	13.6	13.70
Baraga	12.9	15.33	Mackinac	12.2	15.01
Barry	10.1	10.12	Macomb	4.8	7.70
Bay	8.1	10.11	Manistee	13.5	15.55
Benzie	14.3	14.76	Marquette	8.0	8.83
Berrien	9.2	10.96	Mason	13.1	14.90
Branch	10.3	11.79	Mecosta	8.7	9.06
Calhoun	9.4	11.26	Menominee	13.1	14.14
Cass	9.8	10.92	Midland	5.4	7.28
Charlevoix	11.4	12.23	Missaukee	12.9	12.46
Cheboygan	11.8	13.97	Monroe	7.4	8.38
Chippewa	8.3	12.42	Montcalm	11.2	12.17
Clare	13.2	15.42	Montmorency	15.8	17.79
Clinton	6.9	7.55	Muskegon	8.5	10.70
Crawford	10.9	12.54	Newaygo	11.6	13.09
Delta	11.6	12.69	Oakland	6.6	8.87
Dickinson	15.8	16.84	Oceana	11.8	12.35
Eaton	7.1	7.95	Ogemaw	15.0	15.25
Emmet	12.1	12.53	Ontonagon	9.8	15.94
Genesee	6.5	7.96	Osceola	12.1	13.19
Gladwin	12.9	14.29	Oscoda	17.0	17.67
Gogebic	16.3	20.72	Otsego	9.5	10.90
Grand Traverse	10.9	10.75	Ottawa	7.6	8.72
Gratiot	10.1	11.68	Presque Isle	11.6	15.02
Hillsdale	11.3	12.26	Roscommon	17.2	19.45
Houghton	13.7	15.96	Saginaw	7.7	9.21
Huron	12.8	15.11	St. Clair	9.9	10.67
Ingham	6.8	7.44	St. Joseph	11.0	11.94
Ionia	9.7	9.62	Sanilac	12.0	13.91
Iosco	9.7	13.47	Schoolcraft	13.7	15.39
Iron	16.6	21.90	Shiawassee	8.1	8.68
Isabella	6.4	7.07	Tuscola	9.0	9.63
Jackson	9.2	9.93	Van Buren	11.6	12.17
Kalamazoo	7.7	8.90	Washtenaw	5.8	6.37
Kalkaska	14.6	11.65	Wayne	9.4	10.47
Kent	9.3	10.22	Wexford	12.1	13.17
Keweenaw	14.8	27.66	MICHIGAN	8.5	9.85

SOURCE: Bureau of the Census, tapes.

TABLE II-8. PERCENTAGE OF POPULATION 17 AND UNDER FOR MICHIGAN COUNTIES: CENSUS 1970 AND 1980

	Percentage			Percentage	
County	1970	1980	County	1970	1980
Alcona	32.7	26.09	Lake	32.3	26.69
Alger	36.9	30.12	Lapeer	40.1	35.68
Allegan	38.9	31.99	Leelanau	36.4	28.51
Alpena	40.7	30.79	Lenawee	36.5	31.31
Antrim	36.6	29.42	Livingston	40.2	34.36
Arenac	37.4	30.67	Luce	33.0	29.16
Baraga	35.6	30.96	Mackinac	38.6	29.89
Barry	37.0	31.46	Macomb	40.8	29.87
Bay	38.6	30.56	Manistee	35.7	27.89
Benzie	35.0	28.83	Marquette	33.7	28.04
Berrien	36.5	30.76	Mason	34.8	27.95
Branch	36.3	29.99	Mecosta	28.8	23.35
Calhoun	35.1	28.89	Menominee	36.3	30.13
Cass	36.2	30.72	Midland	41.2	32.20
Charlevoix	38.0	30.09	Missaukee	37.3	32.23
Cheboygan	38.3	30.50	Monroe	40.2	33.33
Chippewa	37.3	27.65	Montcalm	37.2	31.73
Clare	36.1	28.93	Montmorency	34.1	27.68
Clinton	41.6	34.46	Muskegon	39.0	30.74
Crawford	38.4	30.78	Newaygo	38.8	31.55
Delta	37.7	31.22	Oakland	37.7	28.65
Dickinson	33.4	27.02	Oceana	38.1	32.38
Eaton	39.4	31.54	Ogemaw	35.5	29.09
Emmet	36.7	29.21	Ontonagon	38.2	30.17
Genesee	39.8	32.15	Osceola	37.3	31.78
Gladwin	36.3	29.48	Oscoda	33.3	28.05
Gogebic	31.0	24.58	Otsego	39.8	32.73
Grand Traverse	34.8	29.35	Ottawa	39.6	31.86
Gratiot	37.6	31.21	Presque Isle	38.6	29.78
Hillsdale	35.8	30.35	Roscommon	30.2	24.40
Houghton	28.4	22.94	Saginaw	39.9	32.56
Huron	37.7	30.36	St. Clair	37.7	31.83
Ingham	32.6	26.20	St. Joseph	35.5	30.64
Ionia	37.7	31.82	Sanilac	38.2	31.25
Iosco	36.7	28.64	Schoolcraft	36.9	29.50
Iron	29.9	23.63	Shiawassee	39.9	33.74
Isabella	32.0	24.78	Tuscola	39.5	33.41
Jackson	35.9	29.13	Van Buren	37.3	31.65
Kalamazoo	34.0	26.71	Washtenaw	30.0	24.24
Kalkaska	36.8	32.74	Wayne	34.9	29.33
Kent	37.3	29.58	Wexford	37.3	30.55
Keweenaw	26.2	20.63	MICHIGAN	36.6	29.71

SOURCE: Bureau of the Census, tapes.

TABLE II-9. PERCENTAGE OF POPULATION THAT WAS BLACK OR OF SPANISH ORIGIN IN MICHIGAN COUNTIES: CENSUS 1980

County	Percentage Black	Percentage Spanish	County	Percentage Black	Percentage Spanish
Alcona	.0	.5	Lake	16.6	.6
Alger	.5	.3	Lapeer	.2	1.8
Allegan	1.8	2.4	Leelanau	.1	.5
Alpena	.0	.2	Lenawee	.8	5.0
Antrim	.0	.4	Livingston	.4	.7
Arenac	.0	1.0	Luce	.0	.2
Baraga	.6	.4	Mackinac	.0	.2
Barry	.1	.9	Macomb	1.3	.9
Bay	.8	2.6	Manistee	.2	1.3
Benzie	.3	.9	Marquette	1.7	.6
Berrien	14.4	1.2	Mason	.6	1.4
Branch	.1	.5	Mecosta	2.1	.5
Calhoun	9.5	1.7	Menominee	.0	.2
Cass	8.3	.6	Midland	.7	1.1
Charlevoix	.0	.3	Missaukee	.0	.2
Cheboygan	.0	.2	Monroe	1.7	1.3
Chippewa	1.2	.3	Montcalm	.2	1.2
Clare	.0	.4	Montmorency	.0	.5
Clinton	.3	1.7	Muskegon	12.1	1.7
Crawford	.5	.5	Newaygo	1.5	1.9
Delta	.0	.2	Oakland	4.7	1.4
Dickinson	.0	.1	Oceana	.1	5.1
Eaton	2.2	1.8	Ogemaw	.0	.3
Emmet	.4	.2	Ontonagon	.0	.1
Genesee	17.4	1.6	Osceola	.0	.5
Gladwin	.0	.5	Oscoda	.0	.1
Gogebic	.6	.3	Otsego	.0	.3
Grand Traverse	.2	.5	Ottawa	.4	3.1
Gratiot	.0	3.2	Presque Isle	.0	.2
Hillsdale	.2	.7	Roscommon	.0	.3
Houghton	.2	.3	Saginaw	15.7	5.4
Huron	.0	1.0	St. Clair	2.0	1.4
Ingham	7.7	3.8	St. Joseph	2.4	.6
Ionia	3.1	1.7	Sanilac	.0	2.1
Iosco	2.3	.9	Schoolcraft	.0	.2
Iron	.0	.1	Shiawassee	.0	1.1
Isabella	.9	1.2	Tuscola	.5	1.7
Jackson	7.1	1.1	Van Buren	7.5	2.2
Kalamazoo	7.4	1.2	Washtenaw	10.6	1.5
Kalkaska	.0	.4	Wayne	35.5	1.9
Kent	7.0	1.9	Wexford	.0	.5
Keweenaw	.4	.3	MICHIGAN	12.9	1.7

SOURCE: Bureau of the Census, 1980 Census of Population and Housing.

TABLE II-10. PERCENTAGE OF YEAR-ROUND HOUSING UNITS THAT ARE VACANT, CENSUS: 1970 AND 1980

County	Percentage 1970	Percentage 1980	County	Percentage 1970	Percentage 1980
Alcona	33.3	43.6	Lake	52.6	60.4
Alger	24.5	16.8	Lapeer	8.8	5.0
Allegan	8.5	6.0	Leelanau	34.2	30.4
Alpena	11.4	10.6	Lenawee	6.0	10.4
Antrim	34.9	31.7	Livingston	9.0	5.4
Arenac	12.9	31.9	Luce	13.1	10.0
Baraga	18.2	13.5	Mackinac	29.6	15.9
Barry	12.4	12.6	Macomb	2.7	2.8
Bay	4.1	4.2	Mainstee	17.4	13.6
Benzie	24.8	17.9	Marquette	8.9	8.8
Berrien	7.9	7.8	Mason	22.3	18.9
Branch	11.5	12.0	Mecosta	13.0	23.8
Calhoun	4.4	5.2	Menominee	14.2	9.9
Cass	14.4	7.2	Midland	7.8	6.1
Charlevoix	20.2	20.0	Missaukee	21.1	15.5
Cheboygan	18.0	24.7	Monroe	2.9	4.4
Chippewa	15.2	20.6	Montcalm	11.2	10.8
Clare	51.7	23.8	Montmorency	48.8	43.2
Clinton	3.4	3.6	Muskegon	4.5	5.4
Crawford	15.1	41.8	Newaygo	21.7	10.9
Delta	12.2	9.1	Oakland	3.3	4.3
Dickinson	9.1	6.9	Oceana	15.2	10.6
Eaton	3.9	4.1	Ogemaw	50.4	53.6
Emmet	20.0	21.4	Ontonagon	17.3	13.1
Genesee	4.0	4.9	Osceola	17.9	21.0
Gladwin	41.0	40.1	Oscoda	48.8	46.0
Gogebic	8.4	15.3	Otsego	30.8	21.2
Grand Traverse	12.2	12.1	Ottawa	3.6	4.4
Gratiot	6.7	6.3	Presque Isle	13.8	13.8
Hillsdale	10.9	11.7	Roscommon	52.4	49.7
Houghton	12.4	10.5	Saginaw	3.8	4.2
Huron	13.8	15.0	St. Clair	10.5	5.8
Ingham	4.9	4.3	St. Joseph	7.4	6.8
Ionia	7.6	5.3	Sanilac	15.4	10.8
Iosco	31.8	37.1	Schoolcraft	20.6	16.7
Iron	19.1	12.4	Shiawassee	4.0	4.3
Isabella	7.9	7.5	Tuscola	9.8	5.8
Jackson	4.1	5.0	Van Buren	13.1	9.0
Kalamazoo	4.3	4.9	Washtenaw	4.0	4.6
Kalkaska	32.2	18.2	Wayne	4.5	5.8
Kent	5.1	26.8	Wexford	15.1	15.6
Keweenaw	17.4	29.0	TOTAL	6.8	7.3

SOURCE: Bureau of the Census, _1970 Census of Housing, Detailed Housing Characteristics, Michigan_ (Washington, D.C.: 1972), HC(1)-B24, Table 60 and _1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980_ (Washington, D.C.: 1981), HC80-S1-1, p. 150.

TABLE II-11. IN-MIGRATION, OUT-MIGRATION, AND NET MIGRATION STREAMS BETWEEN MICHIGAN AND OTHER STATES: 1975-1980: CENSUS 1980

Regions, States	In-migration from	Out-migration to	Net migration stream
Regions:			
Northeast	64,192	57,801	6,391
North Central	177,204	174,317	2,887
South	133,753	285,598	-151,845
West	65,064	169,451	-104,387
Northeast:			
New England	15,966	18,469	-2,503
Middle Atlantic	48,226	39,332	8,894
North Central:			
East North Central	149,057	134,027	15,030
West North Central	28,147	40,290	-12,143
South:			
South Atlantic	75,141	160,387	-85,246
East South Central	32,011	55,319	-23,308
West South Central	26,601	69,892	-43,291
West:			
Mountain	21,223	69,206	-47,983
Pacific	43,841	100,245	-56,404
New England:			
Maine	1,938	1,634	304
New Hampshire	864	1,606	-742
Vermont	464	921	-457
Massachusetts	6,752	7,944	-1,192
Rhode Island	969	1,011	-42
Connecticut	4,979	5,353	-374
Middle Atlantic:			
New York	22,763	18,250	4,513
New Jersey	9,243	8,177	1,066
Pennsylvania	16,220	12,905	3,315
East North Central:			
Ohio	56,454	45,524	10,930
Indiana	31,259	30,769	490
Illinois	44,206	36,589	7,617
Wisconsin	17,138	21,145	-4,007
West North Central:			
Minnesota	6,551	11,008	-4,457
Iowa	4,786	5,538	-752
Missouri	8,870	12,195	-3,325
North Dakota	1,080	1,453	-373
South Dakota	784	1,267	-483
Nebraska	2,424	3,408	-984
Kansas	3,652	5,421	-1,769

TABLE II-11. IN-MIGRATION, OUT-MIGRATION, AND NET MIGRATION STREAMS BETWEEN MICHIGAN AND OTHER STATES: 1975-1980: CENSUS 1980 (cont.)

Regions, States	In-migration from	Out-migration to	Net migration stream
South Atlantic:			
Delaware	1,285	929	356
Maryland	7,249	6,137	1,112
District of Columbia	1,413	1,585	-172
Virginia	11,054	14,990	-3,936
West Virginia	3,548	4,396	-848
North Carolina	8,816	13,090	-4,274
South Carolina	3,413	8,271	-4,858
Georgia	7,698	15,743	-8,045
Florida	30,665	95,246	-64,581
East South Central:			
Kentucky	9,504	17,820	-8,316
Tennessee	9,305	21,056	-11,751
Alabama	7,656	11,354	-3,698
Mississippi	5,546	5,089	457
West South Central:			
Arkansas	4,818	8,521	-3,703
Louisiana	3,076	6,312	-3,236
Oklahoma	3,067	8,005	-4,938
Texas	15,640	47,054	-31,414
Mountain:			
Montana	994	1,919	-925
Idaho	789	2,399	-1,610
Wyoming	848	2,529	-1,681
Colorado	7,637	18,735	-11,098
Nex Mexico	1,732	4,066	-2,334
Arizona	6,284	31,498	-25,214
Utah	1,767	2,961	-1,194
Nevada	1,172	5,099	-3,927
Pacific:			
Washington	4,283	11,284	-7,001
Oregon	2,175	6,087	-3,912
California	32,906	76,795	-43,889
Alaska	2,296	2,735	-439
Hawaii	2,181	3,344	-1,163
Abroad	77,831	--	77,831
TOTAL	518,044	687,167	-169,123

SOURCE: U.S. Bureau of the Census: "State of Residence in 1975 by State of Residence in 1980." Supplementary Report, 1980 Census of Population, PC80-S1-9, March 1983.

TABLE II-12. PERCENTAGE OF PERSONS LIVING IN THE SAME HOUSE OR IN A DIFFERENT HOUSE IN THE SAME COUNTY FIVE YEARS EARLIER: CENSUS 1980

	Percentage living in			Percentage living in	
County	Same house	Different house same county	County	Same house	Different house same county
Alcona	50.5	12.0	Lake	50.5	11.2
Alger	50.3	24.1	Lapeer	54.3	20.0
Allegan	59.3	20.5	Leelanau	56.6	14.6
Alpena	60.9	25.5	Lenawee	55.0	20.3
Antrim	50.7	15.0	Livingston	47.7	17.5
Arenac	58.6	18.3	Luce	59.6	20.4
Baraga	62.3	20.5	Mackinac	58.9	21.1
Barry	57.1	19.9	Macomb	59.0	21.9
Bay	61.0	20.5	Manistee	64.5	19.0
Benzie	54.9	18.1	Marquette	45.8	24.0
Berrien	56.4	29.1	Mason	58.4	22.8
Branch	57.3	25.4	Mecosta	41.3	15.5
Calhoun	57.1	28.3	Menominee	68.1	17.9
Cass	61.9	18.4	Midland	52.8	24.7
Charlevoix	55.7	21.1	Missaukee	57.4	16.4
Cheboygan	59.6	17.8	Monroe	59.5	22.2
Chippewa	54.4	22.4	Montcalm	59.9	20.2
Clare	55.1	15.4	Montmorency	55.7	17.0
Clinton	61.7	15.5	Muskegon	60.3	28.4
Crawford	53.9	17.6	Newaygo	60.1	18.5
Delta	61.5	25.1	Oakland	52.9	25.0
Dickinson	65.0	20.2	Oceana	61.0	20.5
Eaton	51.3	18.2	Ogemaw	60.6	14.2
Emmet	52.1	23.4	Ontonagon	70.8	17.2
Genesee	57.3	32.4	Osceola	57.5	19.9
Gladwin	55.2	15.9	Oscoda	55.8	12.7
Gogebic	70.0	17.9	Otsego	50.4	24.0
Grand Traverse	44.2	22.6	Ottawa	56.2	21.9
Gratiot	60.7	22.1	Presque Isle	68.3	17.0
Hillsdale	56.5	23.7	Roscommon	49.1	17.5
Houghton	54.7	15.6	Saginaw	60.4	29.3
Huron	66.4	19.6	St. Clair	57.0	24.9
Ingham	42.3	27.2	St. Joseph	60.0	26.7
Ionia	57.8	20.2	Sanilac	63.2	18.8
Iosco	44.2	14.9	Schoolcraft	57.3	25.7
Iron	68.2	14.2	Shiawassee	60.0	21.9
Isabella	41.5	19.9	Tuscola	61.5	21.3
Jackson	55.5	27.6	Van Buren	54.9	23.2
Kalamazoo	47.5	28.9	Washtenaw	39.9	24.8
Kalkaska	48.7	18.4	Wayne	60.0	30.7
Kent	54.0	30.7	Wexford	56.5	21.5
Keweenaw	68.1	4.8	MICHIGAN	56.4	26.2

SOURCE: Bureau of the Census, 1980 Census of Population and Housing.

TABLE II-5. COMPONENTS OF POPULATION CHANGE IN MICHIGAN, BY COUNTY: CENSUS 1970 TO CENSUS 1980 AND 1 JULY 1985 ESTIMATES (cont.)

County	1970 to 1980				1980 to Preliminary 1 July 1985 estimates[a]			
	Population change	Births	Deaths	Net migration	Population change	Births	Deaths	Net migration
Sanilac	5,608	6,070	4,085	3,623	-800	3,300	2,100	-2,000
Schoolcraft	349	1,301	1,109	157	-200	600	500	-300
Shiawassee	8,065	11,780	5,189	1,474	-2,600	5,600	2,700	-5,600
Tuscola	8,358	8,846	4,495	4,007	-2,000	4,400	2,300	-4,100
Van Buren	10,641	10,401	5,928	6,168	-200	5,700	3,300	-2,600
Washtenaw	30,645	37,715	13,067	5,997	-2,200	20,300	7,500	-15,000
Wayne	-332,477	404,359	247,901	-488,935	-163,600	177,800	117,800	-223,500
Wexford	5,385	3,687	2,362	4,060	1,200	2,200	1,300	400
TOTAL	380,252	1,440,182	759,956	-299,974	-173,700	725,300	399,000	-500,000

SOURCE: U.S. Bureau of the Census and Michigan Department of Management and Budget, special release.

a. The preliminary estimates are subject to change when more data become available.

NOTE: The number of births and deaths are derived from the reported vital statistics released by the Michigan Department of Public Health between 1980 and 1985. Three quarters of the 1980 numbers are used as those occuring between April 1, 1980 and December 31, 1980. One half of the 1985 estimated resident births and deaths are used as those between January 1, 1985 and June 30, 1985.

Net migration is the difference between net change and natural increase.

TABLE II-6. DISTRIBUTION OF RESIDENT POPULATION, BY AGE, MICHIGAN AND U.S.: 1980-1984

	1980				1981			
Age category	MI	Percent of total MI	U.S.	Percent of total U.S.	MI	Percent of total MI	U.S.	Percent of total U.S.
			(Population in thousands)					
Under 5 years	685	7.4	16,348	7.2	691	7.5	16,939	7.4
5-13 years	1,529[b]	16.5[b]	34,942[b]	15.4[b]	1,309	14.2	30,656	13.4
14-17 years	901[b]	9.7[b]	21,168[b]	9.3[b]	665	7.2	15,565	6.8
18-24 years	894[b]	9.7[b]	21,319[b]	9.4[b]	1,240	13.5	30,176	13.2
25-34 years	1,515	16.4	37,082	16.4	2,605	28.3	65,254	28.5
35-44 years	1,029	11.1	25,634	11.3	a	a	a	a
45-64 years	1,795	19.4	44,503	19.6	1,754	19.1	44,465	19.4
65 years and over	913	9.9	25,550	11.3	940	10.2	26,253	11.4
Total population	9,262	100.0	226,546	100.0	9,204	100.0	229,307	100.0
	1982				1983			
Under 5 years	686	7.5	17,372	7.5	682	7.5	17,826	7.6
5-13 years	1,265	13.9	30,431	13.1	1,229	13.6	30,116	12.9
14-17 years	628	6.9	14,962	6.5	606	6.7	14,633	6.3
18-24 years	1,216	13.3	30,096	13.0	1,190	13.1	29,897	12.8
25-34 years	1,563	17.2	39,302	17.0	1,584	17.5	40,146	17.2
35-44 years	1,080	11.9	28,079	12.1	1,155	12.3	29,424	12.6
45-64 years	1,708	18.8	44,468	19.2	1,679	18.5	44,555	19.0
65 years and over	964	10.6	26,824	11.6	983	10.8	27,384	11.7
Total population	9,109	100.0	231,534	100.0	9,069	100.0	233,981	100.0
	1984							
Under 5 years	664	7.3	17,816	7.5				
5-13 years	1,216	13.4	30,165	12.8				
14-17 years	605	6.7	14,707	6.2				
18-24 years	1,149	12.7	29,123	12.3				
25-34 years	1,612	17.8	40,912	17.3				
35-44 years	1,154	12.7	30,649	13.0				
45-64 years	1,667	18.4	44,746	18.9				
65 years and over	1,007	11.1	28,040	11.9				
Total population	9,075	100.0	236,158	100.0				

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1986 and previous years, Table 29 and others. NOTE: Totals may not add to 100 percent due to rounding.

a. Included above. In 1981, this age category was 25-44 years.

b. 1980 age categories: 5-14 years; 15-19 years; 20-24 years. All other categories unchanged.

TABLE II-13. MEDIAN VALUES AND HOME VALUE RATIOS OF OWNER-OCCUPIED SINGLE DWELLING HOUSING UNITS IN STANDARD METROPOLITAN STATISTICAL AREAS: 1950, 1960, 1970 AND 1980

Standard Metropolitan Statistical Area[a]	1950 Median value	1950 Home value ratio[b]	1960 Median value	1960 Home value ratio[b]	1970 Median value	1970 Home value ratio[b]	1980 Median value	1980 Home value ratio[b]
Ann Arbor	n.a.	n.a.	$15,100	1.26	$23,100	1.32	$60,800	1.56
Battle Creek	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	30,800	.79
Bay City	$ 6,178	.82	10,300	.86	14,900	.85	35,800	.92
Benton Harbor	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	33,900	.87
Detroit	8,966	1.20	13,300	1.11	19,600	1.12	42,500	1.09
Flint	6,468	.86	11,200	.93	16,300	.93	35,500	.91
Grand Rapids	8,091	1.08	12,100	1.01	16,100	.92	40,600	1.04
Jackson	6,157	.82	10,200	.85	14,300	.82	33,100	.85
Kalamazoo-Portage	7,315	.98	12,000	1.00	16,400	.94	39,100	1.00
Lansing-East Lansing	7,042	.94	11,500	.96	17,600	1.01	40,400	1.04
Muskegon-Norton Shores-Muskegon Heights	n.a.	n.a.	9.900	.83	12,600	.72	27,700	.71
Saginaw	6,400	.85	11,000	.92	16,300	.93	36,200	.93
Toldeo (Michigan part)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	45,700	1.17
MICHIGAN	7,496	1.00	12,000	1.00	17,500	1.00	39,000	1.00

SOURCE: Bureau of the Census, Census of Housing, General Characteristics-Michigan (Washington, D.C.), Table 1, 1950, 1960, 1970 and 1980.

a. In 1970 the Bay City SMSA was Bay County, the Detroit SMSA was Macomb, Oakland, and Wayne counties; the Flint SMSA was Genesee County; the Grand Rapids SMSA was Kent County, the Jackson SMSA was Jackson County, the Kalamazoo SMSA was Kalamazoo County, the Lansing SMSA was Ingham County, and the Saginaw SMSA was Saginaw County. By 1960 the Muskegon-North Shores-Muskegon Heights SMSA was Muskegon County, the Ann Arbor SMSA was Washtenaw County, Lansing SMSA expanded to also include Clinton and Eaton counties. In 1970 the Flint SMSA expanded to also include Lapeer County and the Grand Rapids SMSA expanded to include Ottawa County. In 1980 the Benton Harbor SMSA was Berrien County, the Battle Creek SMSA was Calhoun and Barry counties, the Detroit SMSA was expanded to also include Lapeer, Livingston and St. Clair counties, the Flint SMSA added Shiawassee county and dropped Lapeer County, the Kalamazoo-Portage SMSA expanded to also include Van Buren County, the Muskegon-Norton Shores-Muskegon Heights SMSA expanded to also include Oceana County, and the Lansing-East Lansing SMSA expanded to also include Ionia County. The Michigan part of the Toledo SMSA was Monroe County.

b. The home value ratio is the median value of the owner-occupied single-dwelling housing unit of the specific Standard Metropolitan Statistical Area divided by the corresponding value for the state of Michigan in the concurrent year.

TABLE II-14. GENERAL HOUSING CHARACTERISTICS: CENSUS 1980

	Michigan	United States
Total housing units	3,589,912	88,411,263
Vacant seasonal & migratory	132,890	1,641,874
Year-round housing units	3,457,022	86,769,389
Tenure and vacancy status		
Owner-occupied housing units	2,321,883	51,794,545
Percent of occupied housing units	72.7	64.4
Renter-occupied housing units	873,330	28,595,128
Vacant housing units	261,809	6,379,716
For sale only	32,191	948,469
For rent	69,008	2,178,801
Held for occasional use	69,361	1,010,804
Other vacants	91,249	2,241,642
Year householder moved into unit		
Owner-occupied housing units	2,321,883	51,794,545
1979 to March 1980	262,663	6,111,867
1975 to 1978	611,777	13,402,102
1970 to 1974	411,263	9,404,786
1960 to 1969	518,046	11,152,581
1950 to 1959	293,485	6,690,075
1949 or earlier	224,649	5,033,134
Renter-occupied housing units	873,330	28,595,128
1979 to March 1980	387,111	12,184,750
1975 to 1978	307,548	9,367,149
1970 to 1974	94,348	3,384,266
1960 to 1969	50,437	2,236,304
1959 or earlier	33,886	1,422,659

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, Supplementary Report, Provisional Estimates of Social, Economic, and Housing Characteristics (Washington, D.C.: 1982), PHC80-S1-1, Table H1.

TABLE II-16. PERCENTAGE OF MICHIGAN YEAR-ROUND HOUSING UNITS BUILT BETWEEN 1970 AND 1980, AND IN 1939 OR EARLIER, BY COUNTY: CENSUS 1980

County	Year structure built 1970 to March 1980	Year structure built 1939 or earlier	County	Year structure built 1970 to March 1980	Year structure built 1939 or earlier
Alcona	36.4	16.4	Lake	27.4	22.5
Alger	26.8	42.2	Lapeer	36.9	29.6
Allegan	27.7	36.2	Leelanau	36.6	27.3
Alpena	25.4	31.5	Lenawee	19.2	41.7
Antrim	35.2	32.3	Livingston	45.3	20.0
Arenac	32.5	22.6	Luce	29.6	30.0
Baraga	25.4	47.5	Mackinac	23.7	33.1
Barry	22.2	36.1	Macomb	28.0	8.5
Bay	22.0	34.4	Manistee	20.8	43.8
Benzie	32.9	34.9	Marquette	28.9	36.8
Berrien	18.8	29.9	Mason	23.1	39.0
Branch	20.4	43.2	Mecosta	33.1	25.4
Calhoun	16.1	38.2	Menominee	21.9	44.6
Cass	23.0	32.6	Midland	29.3	15.5
Charlevoix	33.7	36.6	Missaukee	31.6	35.8
Cheboygan	31.7	29.1	Monroe	26.0	29.9
Chippewa	21.5	35.6	Montcalm	24.1	39.3
Clare	33.5	15.2	Montmorency	37.2	13.9
Clinton	28.1	35.7	Muskegon	18.9	28.4
Crawford	46.4	13.1	Newaygo	27.6	30.6
Delta	24.5	45.1	Oakland	29.7	12.8
Dickinson	18.0	58.8	Oceana	26.2	38.9
Eaton	36.9	28.3	Ogemaw	30.8	15.3
Emmet	32.8	36.5	Ontonagon	17.1	48.5
Genesee	22.1	21.7	Osceola	29.6	36.4
Gladwin	35.0	13.5	Oscoda	32.3	13.9
Gogebic	12.2	64.4	Otsego	42.5	15.9
Grand Traverse	42.1	25.0	Ottawa	30.5	25.4
Gratiot	18.7	47.1	Presque Isle	26.9	33.5
Hillsdale	22.5	48.7	Roscommon	32.5	9.9
Houghton	13.1	70.0	Saginaw	23.0	28.2
Huron	19.9	40.3	St. Clair	23.5	34.0
Ingham	23.5	24.9	St. Joseph	23.9	39.4
Ionia	22.4	48.0	Sanilac	24.3	41.6
Iosco	23.8	14.1	Schoolcraft	18.9	42.4
Iron	16.7	57.6	Shiawassee	24.5	39.8
Isabella	32.1	27.6	Tuscola	28.0	37.7
Jackson	20.6	38.3	Van Buren	26.3	36.4
Kalamazoo	24.6	27.1	Washtenaw	27.0	20.5
Kalkaska	45.4	16.9	Wayne	10.0	32.2
Kent	24.0	30.9	Wexford	30.7	38.0
Keweenaw	9.9	73.3	MICHIGAN	22.1	27.6

SOURCE: Bureau of the Census, special release.

TABLE II-17. PERCENTAGE OF YEAR-ROUND HOUSING UNITS THAT ARE OWNER OCCUPIED, CENSUS: 1970 AND 1980

County	Percentage		County	Percentage	
	1970	1980		1970	1980
Alcona	59.7	49.3	Lake	41.1	33.5
Alger	59.6	66.4	Lapeer	73.5	78.1
Allegan	75.5	76.9	Leelanau	54.5	55.6
Alpena	73.4	72.6	Lenawee	73.3	69.7
Antrim	56.1	57.7	Livingston	74.0	78.1
Arenac	75.1	58.7	Luce	70.9	74.8
Baraga	65.0	67.8	Mackinac	56.1	67.2
Barry	74.3	73.8	Macomb	80.9	77.2
Bay	78.0	75.9	Manistee	69.3	68.7
Benzie	62.8	67.6	Marquette	59.6	58.6
Berrien	67.7	64.9	Mason	63.1	63.6
Branch	69.5	68.2	Mecosta	61.7	54.2
Calhoun	73.7	69.3	Menominee	70.8	72.6
Cass	69.9	74.5	Midland	75.4	74.0
Charlevoix	65.7	63.2	Missaukee	68.9	73.3
Cheboygan	67.9	62.0	Monroe	77.1	75.3
Chippewa	53.2	60.2	Montcalm	73.1	72.0
Clare	42.1	62.9	Montmorency	44.5	49.5
Clinton	82.2	81.3	Muskegon	75.2	71.5
Crawford	68.9	48.5	Newaygo	66.5	75.0
Delta	68.6	70.7	Oakland	75.7	71.1
Dickinson	76.2	75.6	Oceana	70.3	74.3
Eaton	77.3	70.5	Ogemaw	41.3	38.9
Emmet	63.0	59.0	Ontonagon	68.4	72.2
Genesee	74.4	71.1	Osceola	68.5	65.5
Gladwin	52.5	50.9	Oscoda	44.7	47.0
Gogebic	73.0	69.0	Otsego	58.5	64.5
Grand Traverse	68.7	66.2	Ottawa	79.9	78.7
Gratiot	73.0	73.0	Presque Isle	75.0	75.0
Hillsdale	71.2	70.4	Roscommon	40.8	43.0
Houghton	64.8	63.4	Saginaw	74.8	71.1
Huron	71.4	70.2	St. Clair	71.0	73.7
Ingham	61.2	56.0	St. Joseph	73.4	72.3
Ionia	74.7	74.4	Sanilac	70.3	74.1
Iosco	44.3	44.1	Schoolcraft	64.0	67.3
Iron	67.0	72.2	Shiawassee	77.7	77.1
Isabella	64.0	62.0	Tuscola	75.3	78.6
Jackson	75.7	71.5	Van Buren	67.4	70.1
Kalamazoo	68.4	62.4	Washtenaw	54.9	51.0
Kalkaska	58.5	69.3	Wayne	64.8	62.7
Kent	71.8	68.3	Wexford	68.5	67.1
Keweenaw	67.6	59.8	TOTAL	69.4	67.3

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan (Washington, D.C.: 1972), HC(1)-B24, Table 60 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p. 150.

TABLE II-18. PERCENTAGE OF YEAR-ROUND HOUSING UNITS THAT ARE RENTER OCCUPIED, CENSUS: 1970 AND 1980

County	Percentage		County	Percentage	
	1970	1980		1970	1980
Alcona	7.0	7.0	Lake	6.4	6.1
Alger	15.9	16.9	Lapeer	17.7	16.8
Allegan	16.1	17.1	Leelanau	11.2	13.9
Alpena	15.2	16.8	Lenawee	20.7	19.9
Antrim	8.9	11.0	Livingston	17.0	15.6
Arenac	12.0	9.4	Luce	15.9	15.2
Baraga	16.8	18.7	Mackinac	14.3	16.9
Barry	13.3	13.6	Macomb	16.4	20.0
Bay	17.9	19.9	Manistee	14.4	17.7
Benzie	12.4	14.5	Marquette	31.5	32.7
Berrien	24.4	27.2	Mason	14.7	17.5
Branch	19.1	19.8	Mecosta	25.4	21.9
Calhoun	21.9	25.4	Menominee	15.0	17.6
Cass	15.7	18.3	Midland	16.8	19.9
Charlevoix	14.1	16.8	Missaukee	10.0	11.2
Cheboygan	14.2	13.3	Monroe	20.1	20.3
Chippewa	31.6	19.1	Montcalm	15.7	17.2
Clare	6.2	13.3	Montmorency	6.7	7.3
Clinton	14.4	15.0	Muskegon	20.3	23.1
Crawford	16.0	9.6	Newaygo	11.8	14.2
Delta	19.2	20.2	Oakland	21.0	24.5
Dickinson	14.7	17.3	Oceana	14.5	15.1
Eaton	18.8	25.4	Ogemaw	8.3	7.4
Emmet	17.0	19.7	Ontonagon	14.3	14.6
Genesee	21.7	24.0	Osceola	13.6	13.5
Gladwin	6.6	8.9	Oscoda	6.5	7.1
Gogebic	18.6	15.7	Otsego	10.8	14.2
Grand Traverse	19.1	21.7	Ottawa	16.5	16.9
Gratiot	20.3	20.7	Presque Isle	11.2	11.2
Hillsdale	17.9	17.9	Roscommon	6.7	7.3
Houghton	22.8	26.0	Saginaw	21.4	24.8
Huron	14.8	14.8	St. Clair	18.5	20.5
Ingham	33.8	39.7	St. Joseph	19.2	20.6
Ionia	17.8	20.2	Sanilac	14.2	15.1
Iosco	23.9	18.8	Schoolcraft	15.4	16.1
Iron	13.9	15.4	Shiawassee	18.3	18.6
Isabella	28.1	30.5	Tuscola	14.9	15.5
Jackson	20.2	23.4	Van Buren	19.5	20.9
Kalamazoo	27.3	32.6	Washtenaw	41.1	44.4
Kalkaska	9.2	12.5	Wayne	30.7	31.6
Kent	23.2	26.8	Wexford	16.5	17.3
Keweenaw	15.0	11.2	TOTAL	23.8	25.3

SOURCE: Bureau of the Census, *1970 Census of Housing, Detailed Housing Characteristics, Michigan* (Washington, D.C.: 1972), HC(1)-B24, Table 60 and *1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980* (Washington, D.C.: 1981), HC80-S1-1, p. 150.

TABLE II-19. MEDIAN VALUE OF OWNER OCCUPIED HOUSING UNITS IN MICHIGAN, BY COUNTY, CENSUS: 1970 AND 1980

County	Value 1970	Value 1980	County	Value 1970	Value 1980
Alcona	12,400	32,500	Lake	6,700	19,800
Alger	9,400	27,500	Lapeer	15,900	42,300
Allegan	12,700	36,900	Leelanau	16,300	48,600
Alpena	12,800	32,200	Lenawee	14,700	36,700
Antrim	11,500	35,000	Livingston	19,700	61,000
Arenac	9,600	32,300	Luce	9,100	26,000
Baraga	10,200	28,800	Mackinac	8,700	28,400
Barry	12,100	33,100	Macomb	22,700	50,600
Bay	15,200	35,800	Manistee	11,100	30,700
Benzie	10,700	32,100	Marquette	12,500	37,800
Berrien	15,200	33,900	Mason	11,500	29,800
Branch	12,000	30,200	Mecosta	11,200	32,200
Calhoun	13,800	30,000	Menominee	10,300	29,900
Cass	12,200	33,300	Midland	19,000	44,900
Charlevoix	11,800	34,400	Missaukee	9,200	28,200
Cheboygan	12,300	32,600	Monroe	17,600	45,700
Chippewa	8,900	25,500	Montcalm	10,300	27,400
Clare	9,900	26,300	Montmorency	10,100	29,200
Clinton	16,400	43,300	Muskegon	12,500	27,700
Crawford	12,500	31,400	Newago	10,600	28,400
Delta	11,700	33,500	Oakland	23,200	56,300
Dickinson	10,200	32,000	Oceana	12,200	28,000
Eaton	17,900	45,600	Ogemaw	11,100	27,700
Emmet	14,500	40,700	Ontonagon	9,000	20,800
Genesee	16,300	35,500	Osceola	8,800	26,200
Gladwin	10,400	29,900	Oscoda	10,100	27,400
Gogebic	6,300	17,400	Otsego	16,100	39,000
Grand Traverse	16,300	45,000	Ottawa	16,600	44,800
Gratiot	11,400	27,200	Presque Isle	12,400	37,700
Hillsdale	11,400	30,300	Roscommon	13,100	29,000
Houghton	6,400	21,400	Saginaw	16,300	36,200
Huron	11,500	31,200	St. Clair	14,600	37,800
Ingham	17,900	39,800	St. Joseph	12,200	32,400
Ionia	11,200	31,100	Sanilac	11,800	31,000
Iosco	13,400	31,300	Schoolcraft	8,700	24,700
Iron	7,700	23,800	Shiawassee	13,800	35,100
Isabella	14,500	37,500	Tuscola	12,300	35,500
Jackson	14,600	33,100	Van Buren	12,400	33,300
Kalamazoo	16,600	40,800	Washtenaw	23,300	60,800
Kalkaska	9,200	32,500	Wayne	18,100	32,600
Kent	16,000	38,900	Wexford	9,600	29,200
Keweenaw	5,000	14,400	MICHIGAN	13,600	39,000

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan (Washington, D.C.: 1972), HC(1)-B24, Table 61 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties; 1980 (Washington, D.C.: 1981), HC80-S1-1, p. 150.

NOTE: Applies to all family homes on less than 10 acres with no business property.

TABLE II-20. MEDIAN CONTRACT RENT OF RENTER-OCCUPIED HOUSING UNITS IN MICHIGAN, BY COUNTY, CENSUS: 1970 AND 1980

	Contract rent			Contract rent	
County	1970	1980	County	1970	1980
Alcona	64	136	Lake	53	109
Alger	57	125	Lapeer	87	190
Allegan	77	167	Leelanau	72	183
Alpena	78	162	Lenawee	88	189
Antrim	70	167	Livingston	112	242
Arenac	63	134	Luce	57	140
Baraga	55	122	Mackinac	66	139
Barry	77	167	Macomb	143	259
Bay	86	189	Manistee	58	146
Benzie	59	152	Marquette	79	193
Berrien	88	179	Mason	68	152
Branch	73	168	Mecosta	95	159
Calhoun	88	175	Menominee	58	151
Cass	76	156	Midland	116	217
Charlevoix	81	176	Missaukee	56	152
Cheboygan	72	156	Monroe	93	199
Chippewa	69	154	Montcalm	66	153
Clair	72	153	Montmorency	51	142
Clinton	88	190	Muskegon	76	159
Crawford	70	166	Newaygo	68	150
Delta	67	152	Oakland	151	286
Dickinson	65	164	Oceana	66	139
Eaton	110	227	Ogemaw	66	146
Emmet	80	186	Ontonagon	57	124
Genessee	111	208	Osceola	63	141
Gladwin	64	147	Oscoda	57	128
Gogebic	50	113	Otsego	86	181
Grand Traverse	91	219	Ottawa	82	199
Gratiot	70	157	Presque Isle	65	141
Hillsdale	73	158	Roscommon	67	152
Houghton	65	160	Saginaw	93	197
Huron	63	149	St. Clair	84	201
Ingham	125	223	St. Joseph	81	172
Ionia	74	155	Sanilac	63	155
Iosco	80	161	Schoolcraft	54	140
Iron	53	112	Shiawassee	84	178
Isabella	112	177	Tuscola	69	159
Jackson	94	188	Van Buren	74	159
Kalamazoo	111	211	Washtenaw	144	271
Kalkaska	64	172	Wayne	84	166
Kent	88	190	Wexford	70	158
Keweenaw	30	123	MICHIGAN	77	196

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan, (Washington,D.C.: 1972), HC(1)-B24, Table 61 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p 150.

NOTE: Applies to all family homes on less than 10 acres with no business property.

TABLE II-15. NUMBER OF OCCUPIED HOUSING UNITS IN MICHIGAN COUNTIES, BY NUMBER OF UNITS AT ADDRESS: CENSUS 1980

	Owner Occupied Number of units at address					Renter Occupied Number of units at address				
	1	2 to 9	10 or more	Mobile home or trailer	Total	1	2 to 9	10 or more	Mobile home or trailer	Total
Alcona	2,922	84	6	240	3,252	329	59	22	53	463
Alger	2,295	118	4	197	2,614	316	211	90	48	665
Allegan	19,429	530	44	2,268	22,271	2,844	1,281	375	461	4,961
Alpena	8,184	336	12	524	9,056	853	906	202	134	2,095
Antrim	4,261	165	2	371	4,799	606	197	24	97	924
Arenac	3,795	81	4	518	4,398	443	121	31	106	701
Baraga	1,990	94	2	210	2,296	324	217	65	27	633
Barry	11,982	250	9	796	13,037	1,488	620	85	203	2,396
Bay	30,025	856	16	1,874	32,771	3,809	2,981	1,510	277	8,577
Benzie	2,864	87	8	340	3,299	459	154	1	95	709
Berrien	38,997	1,472	51	1,943	42,463	9,210	5,389	2,779	435	17,813
Branch	9,529	256	2	1,070	10,857	1,692	906	223	336	3,157
Calhoun	34,795	868	21	1,711	37,395	7,097	3,684	2,528	419	13,728
Cass	12,366	350	9	1,116	13,841	2,161	613	229	392	3,395
Charlevoix	4,818	159	27	570	5,574	893	392	94	103	1,482
Cheboygan	5,268	147	18	561	5,994	732	311	94	146	1,283
Chippewa	6,301	361	10	865	7,537	1,119	936	228	111	2,394
Clare	6,279	124	6	757	7,166	903	288	161	168	1,520
Clinton	13,544	295	17	1,131	14,987	1,583	725	236	224	2,768
Crawford	2,387	99	3	276	2,765	320	146	23	61	550
Delta	9,203	531	10	811	10,555	1,207	1,177	498	131	3,013
Dickinson	7,205	242	4	310	7,761	856	668	205	46	1,775
Eaton	20,503	584	25	1,056	22,168	3,511	1,710	2,612	136	7,969
Emmet	5,262	222	31	562	6,077	939	642	307	142	2,030
Genesee	106,448	2,827	85	6,234	115,594	19,883	10,210	7,505	1,449	39,047
Gladwin	5,196	76	4	813	6,089	649	128	133	160	1,070
Gogebic	5,747	195	7	225	6,174	720	416	232	36	1,404
Grand Traverse	12,443	444	50	1,500	14,437	2,324	1,321	705	380	4,730
Gratiot	9,361	189	2	823	10,375	1,732	768	248	196	2,944
Hillsdale	10,124	293	6	1,044	11,467	1,573	817	259	267	2,916

TABLE II-15. NUMBER OF OCCUPIED HOUSING UNITS IN MICHIGAN COUNTIES, BY NUMBER OF UNITS AT ADDRESS: CENSUS 1980 (cont.)

	Owner Occupied Number of units at address					Renter Occupied Number of units at address				
	1	2 to 9	10 or more	Mobile home or trailer	Total	1	2 to 9	10 or more	Mobile home or trailer	Total
Houghton	8,307	386	10	495	9,198	1,469	1,649	561	98	3,777
Huron	9,691	188	9	652	10,540	1,606	419	88	111	2,224
Ingham	51,820	1,341	131	2,427	55,719	19,532	7,481	11,995	452	39,460
Ionia	11,306	232	7	1,218	12,763	1,956	836	403	272	3,467
Iosco	6,465	162	21	482	7,130	1,738	932	222	140	3,032
Iron	4,176	126	1	170	4,473	465	324	148	20	957
Isabella	9,252	237	8	1,255	10,752	2,569	1,116	1,190	417	5,292
Jackson	35,188	855	80	2,273	38,396	6,606	3,498	2,058	416	12,578
Kalamazoo	46,004	1,334	88	2,085	49,511	10,788	7,941	6,744	421	25,894
Kalkaska	2,630	70	1	512	3,213	355	61	43	123	582
Kent	102,362	3,605	252	5,487	111,706	18,125	15,994	9,178	595	43,892
Keweenaw	661	26	1	14	702	103	23	--	5	131
Lake	2,163	62	3	354	2,582	370	31	2	65	468
Lapeer	15,969	355	6	1,111	17,441	2,304	963	197	297	3,761
Leelanau	3,648	143	8	220	4,019	699	185	10	110	1,004
Lenawee	21,383	743	18	1,230	23,374	3,416	2,266	758	230	6,670
Livingston	24,195	381	58	1,546	26,180	2,926	1,237	802	199	5,164
Luce	1,554	56	1	211	1,822	222	55	44	49	370
Mackinac	2,547	162	9	223	2,941	454	206	15	64	739
Macomb	172,639	3,143	461	6,221	182,464	23,085	14,371	8,954	946	47,356
Manistee	6,138	222	9	383	6,752	907	572	186	73	1,738
Marquette	13,474	935	14	1,315	15,738	3,862	2,920	1,709	285	8,776
Mason	6,759	231	4	607	7,601	935	761	267	129	2,092
Mecosta	6,660	182	2	1,084	7,928	1,524	945	355	382	3,206
Menominee	6,753	256	3	460	7,472	784	771	164	92	1,811
Midland	17,613	209	8	1,473	19,303	2,631	955	1,190	419	5,195
Missaukee	2,597	44	2	331	2,974	319	58	--	76	453
Monroe	30,822	786	13	2,342	33,963	4,624	2,485	1,844	194	9,147
Montcalm	11,698	236	7	1,419	13,360	1,879	775	293	236	3,183
Montmorency	2,157	89	4	203	2,453	235	64	7	55	361

TABLE II-15. NUMBER OF OCCUPIED HOUSING UNITS IN MICHIGAN COUNTIES, BY NUMBER OF UNITS AT ADDRESS: CENSUS 1980 (cont.)

	Owner Occupied Number of units at address					Renter Occupied Number of units at address				
	1	2 to 9	10 or more	Mobile home or trailer	Total	1	2 to 9	10 or more	Mobile home or trailer	Total
Muskegon	38,358	974	37	1,838	41,207	6,857	3,862	2,379	221	13,319
Newaygo	8,533	170	6	1,489	10,198	1,217	399	7	313	1,936
Oakland	247,660	5,598	1,418	9,462	264,138	41,430	26,187	22,404	1,028	91,049
Oceana	5,282	125	4	755	6,166	819	268	20	145	1,252
Ogemaw	4,400	82	4	505	4,991	667	129	38	115	949
Ontonagon	2,633	78	7	212	2,930	416	110	32	36	594
Osecola	4,739	103	3	595	5,440	644	249	105	120	1,118
Oscoda	1,883	64	2	239	2,188	233	52	6	38	329
Otsego	3,603	87	8	335	4,033	491	200	91	106	888
Ottawa	38,188	1,009	166	2,157	41,520	4,458	3,260	1,030	181	8,929
Presque Isle	3,974	103	2	277	4,356	398	158	46	50	652
Roscommon	5,042	103	13	419	5,577	689	97	62	94	942
Saginaw	53,198	1,150	91	2,007	56,446	10,473	5,538	3,289	370	19,670
St. Clair	33,575	966	122	2,346	37,009	5,180	3,523	1,208	388	10,299
St. Joseph	13,876	348	8	1,187	15,419	2,172	1,469	314	420	4,375
Sanilac	10,415	205	4	973	11,597	1,589	438	127	208	2,362
Schoolcraft	2,183	96	1	178	2,458	309	206	42	30	587
Shiawassee	17,195	460	5	1,147	18,807	2,342	1,627	389	194	4,552
Tuscola	13,684	280	7	1,304	15,275	1,[illegible]4	694	178	289	3,015
Van Buren	15,129	587	23	2,069	17,808	2,829	1,498	453	533	5,313
Washtenaw	46,430	1,752	108	1,418	49,708	18,639	13,848	10,535	207	43,229
Wayne	507,994	29,896	2,464	7,579	547,933	127,570	82,646	65,009	1,011	276,236
Wexford	6,250	163	9	718	7,140	1,012	478	160	193	1,843
MICHIGAN	2,134,378	73,531	6,246	107,728	2,321,883	419,351	254,824	179,055	20,100	873,330

SOURCE: U.S. Department of Commerce, Bureau of the Census, 1980 Census of Housing, General Housing Characteristics: Michigan, Tables 47 and 5.

TABLE II-21. PERCENTAGE OF TOTAL HOUSING UNITS THAT ARE SEASONAL AND MIGRATORY, CENSUS: 1970 AND 1980

	Percentage			Percentage	
County	1970	1980	County	1970	1980
Alcona	42.7	29.7	Lake	36.9	26.8
Alger	12.0	22.3	Lapeer	3.4	3.0
Allegan	10.0	9.1	Leelanau	20.1	20.4
Alpena	5.4	10.8	Lenawee	6.7	0.6
Antrim	18.2	22.2	Livingston	9.8	5.2
Arenac	26.7	2.7	Luce	19.7	31.9
Baraga	6.8	20.7	Mackinac	30.5	42.6
Barry	11.0	7.7	Macomb	0.1	0.1
Bay	1.4	0.5	Manistee	16.2	19.6
Benzie	36.7	35.0	Marquette	8.8	12.0
Berrien	7.6	4.9	Mason	10.8	9.7
Branch	8.7	11.5	Mecosta	19.3	5.8
Calhoun	0.8	0.5	Menominee	3.8	10.8
Cass	9.7	13.9	Midland	1.1	1.0
Charlevoix	17.7	20.7	Missaukee	25.1	33.7
Cheboygan	32.5	22.6	Monroe	0.2	0.5
Chippewa	16.1	23.8	Montcalm	15.0	11.2
Clare	13.6	38.5	Montmorency	28.0	37.1
Clinton	0.1	0.2	Muskegon	1.3	1.0
Crawford	41.9	23.9	Newaygo	16.9	25.6
Delta	6.6	11.7	Oakland	0.7	0.5
Dickinson	8.3	8.9	Oceana	22.3	27.2
Eaton	0.8	0.3	Ogemaw	16.3	1.2
Emmet	22.8	17.6	Ontonagon	9.9	19.6
Genesee	0.4	0.3	Osceola	17.1	16.3
Gladwin	19.4	11.4	Oscoda	37.8	36.2
Gogebic	12.6	11.5	Otsego	15.1	31.2
Grand Traverse	15.8	7.6	Ottawa	2.9	2.2
Gratiot	1.2	0.4	Presque Isle	22.0	30.5
Hillsdale	5.1	4.7	Roscommon	42.9	27.7
Houghton	10.3	12.0	Saginaw	0.3	0.1
Huron	18.2	15.8	St. Clair	2.1	3.2
Ingham	0.1	0.1	St. Joseph	7.9	5.5
Ionia	2.5	2.7	Sanilac	15.9	15.4
Iosco	22.9	10.3	Schoolcraft	16.4	26.5
Iron	11.4	19.9	Shiawassee	0.2	0.2
Isabella	2.4	4.5	Tuscola	2.1	3.1
Jackson	2.1	3.7	Van Buren	16.9	11.8
Kalamazoo	0.7	0.6	Washtenaw	1.3	0.8
Kalkaska	15.1	29.7	Wayne	0.0	0.0
Kent	1.0	1.1	Wexford	6.4	8.0
Keweenaw	44.1	45.4	TOTAL	3.7	3.9

SOURCE: Bureau of the Census, 1970 Census of Housing, Detailed Housing Characteristics, Michigan (Washington, D.C.: 1972), HC(1)-B24, Table 60 and 1980 Census of Housing Supplementary Reports Selected Housing Characteristics by States and Counties: 1980 (Washington, D.C.: 1981), HC80-S1-1, p. 150.

III. HEALTH AND VITAL STATISTICS

Michigan Health Statistics, published annually by the Office of Vital and Health Statistics, Michigan Department of Public Health, is the major source of statistics presented here. Births and deaths are estimated on the basis of registrations, which are not complete. In 1950, a test done in connection with the Census of Population revealed that registration of births in Michigan was 98.7 percent complete. The Office of Vital and Health Statistics believes that death registrations exceed birth registrations because a death certificate is required for the issuance of a burial permit. However, delayed registration of births and deaths cause negligible statistical aberrations.

Since 1950 births and deaths among nonresidents, but taking place in Michigan, have been excluded from the state data; births and deaths among Michigan residents taking place in other states or countries are included. Intrastate allocation of births and deaths is on the basis of county of residence. An effort is made to determine the city of residence, but for a large number of births and deaths in each county it is impossible to determine this jurisdiction from the registration form. Live birth and death statistics for counties appear in Table III-16; some related statistics, used in determining net migration for counties, appear in Table II-4.

Annual information about registered hospitals is published in Hospitals, Journal of the American Hospital Association. Michigan Department of Public Health compilations exclude federal hospitals and hospitals licensed by the Michigan Department of Mental Health. The latter has jurisdiction over state hospitals for the mentally ill as well as state homes and training schools for the mentally retarded.

Those with a special interest in the death rate from motor vehicle accidents should consult chapter XVII.

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III. HEALTH AND VITAL STATISTICS

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TABLE III-1. LIVE BIRTHS AND DEATHS OF MICHIGAN AND U.S. RESIDENTS: 1955-1984

Year	Michigan		United States	
	Live births	Deaths	Live Births	Deaths
1955	196,294	63,087	4,097,000	1,528,717
1956	206,068	64,352	4,210,000	1,564,476
1957	208,488	66,435	4,300,000	1,633,128
1958	202,690	65,899	4,246,000	1,647,886
1959	198,301	66,812	4,286,000	1,656,814
1960	195,056	67,912	4,257,850	1,711,982
1961	192,825	67,375	4,268,326	1,701,522
1962	182,790	70,049	4,167,362	1,756,720
1963	178,871	72,438	4,098,020	1,813,549
1964	175,103	72,129	4,027,490	1,798,051
1965	166,464	73,665	3,760,358	1,828,136
1966	165,794	74,596	3,606,274	1,863,149
1967	162,756	75,360	3,520,959	1,851,323
1968	159,058	76,855	3,501,564	1,930,082
1969	165,760	76,693	3,600,206	1,921,990
1970	171,667	76,321	3,731,386	1,921,031
1971	162,244	77,395	3,555,970	1,927,542
1972	146,854	79,210	3,258,411	1,963,944
1973	141,550	78,522	3,136,965	1,973,003
1974	137,414	76,143	3,159,958	1,934,388
1975	133,931	74,522	3,144,198	1,892,879
1976	131,378	75,801	3,167,788	1,909,440
1977	138,416	74,144	3,326,632	1,899,597
1978	138,802	74,773	3,333,279	1,927,788
1979	144,452	73,480	3,494,398	1,913,841
1980	145,162	74,991	3,612,258	1,989,841
1981	140,579	75,818	3,629,238	1,977,981
1982	137,950	75,536	3,680,537	1,974,797
1983	133,026	76,639	3,638,933	2,019,201
1984	135,782	76,401	3,697,000^{p}	2,047,000^{p}

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1984 (Lansing: 1986); and National Center for Health Statistics, Vital Statistics of the United States 1978 (Hyattsville, MD: 1982) and Monthly Vital Statistics Report (Hyattsville, MD: annual summary).

p: provisional

TABLE III-2. LIVE BIRTH AND DEATH RATES PER 1,000 POPULATION OF MICHIGAN AND U.S. RESIDENTS: 1955-1984

	Michigan		United States	
Year	Live births	Deaths	Live births	Deaths
1955	27.1	8.7	25.0	9.3
1956	27.4	8.6	25.2	9.4
1957	26.7	8.5	25.3	9.6
1958	25.8	8.4	24.5	9.5
1959	24.9	8.4	24.2	9.4
1960	24.9	8.7	23.7	9.5
1961	24.4	8.5	23.3	9.3
1962	23.0	8.8	22.4	9.5
1963	22.3	9.0	21.7	9.6
1964	21.6	8.9	21.1	9.4
1965	20.3	9.0	19.4	9.4
1966	19.9	9.0	18.4	9.5
1967	18.9	8.7	17.8	9.4
1968	18.3	8.9	17.6	9.7
1969	19.0	8.8	17.9	9.5
1970	19.3	8.6	18.4	9.5
1971	18.1	8.6	17.2	9.3
1972	16.3	8.8	15.6	9.4
1973	15.6	8.7	14.8	9.3
1974	15.1	8.4	14.8	9.1
1975	14.7	8.2	14.6	8.8
1976	14.4	8.3	14.6	8.8
1977	15.1	8.1	15.1	8.6
1978	15.1	8.1	15.0	8.7
1979	15.6	7.9	15.6	8.5
1980	15.7	8.1	15.9	8.8
1981	15.2	8.2	15.8	8.6
1982	15.0	8.2	15.9	8.5
1983	14.5	8.4	15.5	8.6
1984	15.0	8.4	15.7[p]	8.7[p]

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1984* (Lansing: 1986); and National Center for Health Statistics, *Vital Statistics of the United States 1978* (Hyattsville, MD: 1982) and *Monthly Vital Statistics Report* (Hyattsville, MD: monthly).

p: provisional.

TABLE III-3. FERTILITY RATES, MICHIGAN AND THE UNITED STATES, SELECTED YEARS: 1940-1984

Year	Michigan	United States
1940	78.9	79.9
1950	110.5	106.2
1960	123.1	118.0
1970	91.7	87.9
1972	75.1	73.1
1973	71.2	68.8
1974	68.0	67.8
1975	65.5	66.0
1976	63.5	65.0
1977	65.9	66.5
1978	65.0	65.5
1979	66.6	67.2
1980	66.3	68.4
1981	63.2	67.4
1982	61.7	67.3
1983	59.3	65.8
1984	60.5	66.0[p]

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1984* (Lansing: 1986), Table 1.3; and National Center for Health Statistics, *Vital Statistics of the United States 1978* (Hyattsville, MD: 1982); and *Monthly Vital Statistics Report* (Hyattsville, MD: monthly).

p.: provisional

TABLE III-4. LIVE BIRTHS BY RACE, MICHIGAN RESIDENTS: 1970-1984

	White		Black and other minority races[a]		
Year	Number	Percentage of total births	Number	Percentage of total births	Total
1970	143,871	83.8	27,796	16.2	171,667
1971	134,165	82.7	28,079	17.3	162,244
1972	119,787	81.6	27,067	18.4	146,854
1973	114,878	81.2	26,672	18.8	141,550
1974	112,474	81.9	24,940	18.1	137,414
1975	109,718	81.9	24,213	18.1	133,931
1976	107,907	82.1	23,471	17.9	131,378
1977	114,042	82.4	24,374	17.6	138,416
1978	114,217	82.3	24,585	17.7	138,802
1979	118,671	82.2	25,781	17.8	144,452
1980	119,103	82.0	26,059	18.0	145,162
1981	115,972	82.5	24,607	17.5	140,579
1982	113,868	82.5	24,082	17.5	137,950
1983	109,335	82.2	23,601	17.7	133,026
1984	110,418	81.3	25,364	18.7	135,782

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1984* (Lansing: 1986), Table 1.4.

[a] Indians from India were counted as "white" from 1970-1977, and with "other" from 1978-1983. Includes race not stated.

TABLE III-5. LIVE BIRTHS, BY LIVE BIRTH ORDER, MICHIGAN RESIDENTS, 1974 AND 1984

Live birth order	Number of births		Percentage of total	
	1974	1984	1974	1984
First birth	56,233	54,907	40.9	40.4
Second birth	43,659	45,327	31.8	33.4
Third birth	19,689	22,230	14.3	16.4
Fourth birth	8,587	7,889	6.2	5.8
Fifth birth or greater	7,696	4,789	5.6	3.5
Not stated	1,550	640	1.1	0.5
TOTAL	137,414	135,782	100.0	100.0

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1984*, (Lansing, 1986).

TABLE III-6. FIRST BIRTHS, MICHIGAN AND U.S. RESIDENTS: 1970-1984

Year	Michigan		United States	
	First births	Percentage of all births	First births	Percentage of all births
1970	64,222	37.4	1,430,680	38.3
1971	60,413	37.2	1,375,668	38.7
1972	57,477	39.1	1,289,257	39.6
1973	57,411	40.6	1,243,358	39.6
1974	56,233	40.9	1,314,194	41.6
1975	55,348	41.3	1,319,126	42.0
1976	54,003	41.1	1,324,811	41.8
1977	56,622	40.9	1,387,143	41.7
1978	57,767	41.6	1,401,491	42.0
1979	60,424	41.8	1,479,260	42.3
1980	61,516	42.4	1,545,604	42.8
1981	59,105	42.0	1,553,665	42.8
1982	56,879	41.2	1,555,627	42.3
1983	54,271	40.8	1,530,639	42.1
1984	54,907	40.4	n.a.	n.a.

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1984* (Lansing: 1986), Table 1.9; and *Monthly Vital Statistics Report* (Hyattsville, MD: advance report, 1982).

n.a.: not available.

TABLE III-7. LIVE BIRTH AND LIVE BIRTH RATES, BY AGE OF MOTHER, MICHIGAN RESIDENTS: 1970-1984

Year	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 and older[a]	Total fertility rate[b]
					Number				
1970	489	29,764	65,892	46,262	19,003	7,904	2,223	118	
1971	472	28,480	62,367	43,639	18,258	6,975	1,926	113	
1972	503	28,108	54,199	40,442	16,133	5,805	1,555	95	
1973	569	27,808	51,284	39,845	15,520	5,163	1,277	62	
1974	501	25,977	49,975	40,215	15,317	4,291	1,063	50	
1975	463	24,509	48,675	40,061	14,891	4,273	982	54	
1976	404	22,593	47,161	41,412	14,893	4,053	799	47	
1977	426	22,585	49,740	43,346	17,293	4,178	771	51	
1978	345	21,487	49,498	43,744	18,367	4,562	729	50	
1979	355	21,239	51,319	46,084	19,962	4,720	715	41	
1980	331	20,000	51,218	47,113	21,024	4,692	740	22	
1981	300	18,397	47,737	46,527	22,178	4,701	695	34	
1982	319	17,344	45,586	45,995	22,564	5,395	711	29	
1983	328	16,589	42,034	45,065	22,505	5,669	791	38	
1984	341	16,442	41,664	45,908	24,320	6,295	n.a.	n.a.	
					Live Birth Rates per 1,000 Women				
1970	1.0	68.2	176.2	154.2	76.2	32.4	8.3	0.4	2,584.5
1971	1.0	64.7	161.7	138.6	69.1	27.9	7.2	0.4	2,353.0
1972	1.1	63.7	137.6	124.1	58.6	22.8	5.9	0.4	2,071.0
1973	1.2	62.8	127.5	118.3	54.2	19.9	4.9	0.2	1,945.0
1974	1.1	58.5	121.9	115.7	51.5	16.3	4.1	0.2	1,846.5
1975	1.1	55.3	117.0	112.3	48.4	16.0	3.9	0.2	1,771.0
1976	0.9	51.1	111.6	113.0	46.9	15.0	3.2	0.2	1,709.5
1977	1.0	50.9	115.5	114.9	52.6	15.2	3.1	0.2	1,767.0
1978	0.8	48.3	112.7	112.6	54.0	16.3	3.0	0.2	1,739.5
1979	0.9	47.6	114.6	115.2	56.7	16.6	3.0	0.2	1,774.0
1980	0.8	44.8	113.1	115.6	58.4	16.4	3.1	0.1	1,761.5
1981	0.8	42.7	105.4	112.1	58.0	15.9	2.9	0.2	1,690.0
1982	0.9	39.2	98.0	107.6	59.2	18.4	3.1	0.1	1,632.5
1983	0.9	37.9	89.8	104.0	58.0	19.3	3.6	0.2	1,568.5
1984	n.a.	n.a.	88.7	104.6	61.7	21.4	n.a.	n.a.	n.a.

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1984 (Lansing, 1986).

NOTE: Live birth rates are per 1,000 women in specified age group.

a. Rate calculated as number of live births to women aged 45 and over per 1,000 women 45-49 years of age.

b. Total fertility rate is total children to 1,000 women in their lifetime assuming constant live birth rates.

TABLE III-8. INFANT, NEONATAL, POSTNEONATAL, PERINATAL, FETAL, AND MATERNAL DEATHS, MICHIGAN RESIDENTS: 1955-1984

Year	Under 1 year	Under 28 days	28-364 days	Perinatal	Fetal	Maternal
1955	4,873	3,707	1,166	6,381	3,029	61
1956	5,047	3,796	1,251	6,655	3,245	84
1957	5,093	3,884	1,209	6,668	3,154	79
1958	4,980	3,789	1,191	6,516	3,101	69
1959	4,846	3,674	1,172	6,250	2,928	72
1960	4,702	3,580	1,122	6,247	3,008	75
1961	4,604	3,475	1,129	5,875	2,735	78
1962	4,367	3,251	1,116	5,669	2,703	56
1963	4,150	3,109	1,041	5,407	2,540	71
1964	4,043	3,071	972	5,293	2,466	62
1965	3,936	2,909	1,027	5,139	2,475	54
1966	3,751	2,830	921	4,909	2,295	54
1967	3,595	2,714	881	4,693	2,195	52
1968	3,438	2,617	821	4,476	2,064	44
1969	3,356	2,550	806	4,488	2,175	27
1970	3,492	2,683	809	4,522	2,060	29
1971	3,157	2,412	745	4,139	1,923	32
1972	2,801	2,115	686	3,700	1,770	35
1973	2,561	1,902	659	3,392	1,682	26
1974	2,387	1,734	653	2,947	1,438	19
1975	2,205	1,563	642	2,673	1,356	16
1976	1,978	1,424	554	2,495	1,264	14
1977	1,945	1,367	578	2,452	1,284	11
1978	1,931	1,281	650	2,302	1,201	15
1979	1,921	1,295	626	2,285	1,175	11
1980	1,851	1,284	567	2,235	1,135	16
1981	1,851	1,281	570	2,151	1,040	7
1982	1,672	1,202	470	1,988	953	11
1983	1,573	1,067	506	1,753	843	6
1984	1,595	1,100	495	1,776	821	4

SOURCE: Michigan Department of Public Health, Michigan Health Statistics 1984 (Lansing, 1986), Table 4.1.

TABLE III-9. NUMBER OF DEATHS BY SIX LEADING CAUSES AMONG MICHIGAN RESIDENTS: 1955-1984

Year	Heart disease	Cancer (all forms)	Cerebro-vascular disease	Accidents Motor vehicle	Accidents All forms	Diabetes	Pneumonia and Influenza
1955	23,440	10,297	7,362	2,129	4,213	1,415	1,599
1956	24,661	10,489	7,114	1,826	3,925	1,443	1,779
1957	25,369	10,810	7,632	1,680	3,643	1,510	2,237
1958	25,215	10,946	7,547	1,466	3,306	1,595	2,209
1959	25,323	11,113	7,700	1,587	3,666	1,715	1,920
1960	25,728	11,331	7,682	1,710	3,688	1,784	2,224
1961	25,519	11,476	7,745	1,656	3,692	1,778	1,762
1962	27,226	11,752	7,783	1,668	3,758	1,908	1,954
1963	27,483	12,078	8,168	2,005	4,033	2,049	2,229
1964	27,496	12,087	7,940	2,286	4,416	2,055	1,754
1965	28,134	12,419	7,769	2,271	4,494	2,153	2,086
1966	28,277	12,506	7,732	2,407	4,737	2,243	2,085
1967	28,757	13,030	7,846	2,265	4,519	2,182	2,051
1968	29,680	13,292	7,913	2,466	4,603	2,298	2,577
1969	29,396	13,328	7,706	2,579	4,766	2,188	2,439
1970	29,204	13,551	7,691	2,309	4,428	2,180	2,101
1971	30,095	13,594	7,82[illegible]	2,274	4,426	2,103	2,058
1972	30,865	14,045	7,999	2,450	4,566	2,222	2,201
1973	29,944	14,220	7,987	2,389	4,630	2,074	2,090
1974	29,220	14,241	7,645	1,929	4,211	1,940	1,698
1975	28,298	14,445	7,262	1,841	4,002	1,819	1,825
1976	29,233	14,880	7,354	1,993	3,912	1,719	2,106
1977	28,895	15,125	6,818	1,993	3,945	1,615	1,660
1978	29,406	15,249	6,520	2,138	3,970	1,551	2,003
1979	29,296	15,409	6,067	1,967	3,839	1,449	1,475
1980	29,790	15,828	6,164	1,880	3,627	1,467	1,808
1981	30,172	16,142	6,121	1,727	3,390	1,487	1,716
1982	30,099	16,566	5,839	1,555	3,113	1,347	1,701
1983	30,412	16,785	5,721	1,419	2,947	1,470	2,102
1984	30,100	16,907	5,631	1,630	3,049	1,476	2,049

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1984 (Lansing: 1986), Table 4.8 and Table 4.16.

TABLE III-10. NUMBER OF DEATHS AMONG MICHIGAN RESIDENTS, BY SIXTEEN LEADING CAUSES[a], BY SEX AND AGE GROUP: 1983

	Sex[b]			Age group					
Cause	Male	Female	Total	Under 1 year	1-19 years	20-44 years	45-64 years	65 and over	Not stated
Diseases of heart	15,870	14,542	30,412	29	41	690	5,777	23,874	1
Cancer	9,122	7,663	16,785	5	130	761	5,475	10,414	--
Cerebrovascular	2,324	3,397	5,721	2	14	154	753	4,798	--
Accident & adverse effects	2,047	900	2,947	41	535	1,098	495	778	--
Chronic obstructive pulmonary diseases and allied conditions[c]	1,582	884	2,466	-	12	34	450	1,970	--
Pneumonia and Influenza	1,067	1,035	2,102	14	11	71	241	1,765	--
Diabetes Mellitus	590	880	1,470	00	2	106	335	1,027	--
Atherosclerosis	459	810	1,269	--	--	--	56	1,213	--
Chronic Liver disease and cirrhosis	850	400	1,250	1	1	210	619	419	--
Suicide	841	243	1,084	--	70	544	303	167	--
Certain conditions originating in the perinatal period	465	383	854	848	6	--	--	--	--
Homicide & legal intervention	750	207	957	7	136	619	151	44	--
Nephritis, nephrotic syndrome, & nephrosis	344	360	704	6	4	36	114	544	--
Congenital anomalies	248	241	491	286	77	52	41	35	--
Septicemia	253	259	512	7	4	25	100	376	--
Hypertension with or without renal disease	138	168	306	--	1	7	47	251	--
All other causes	3,837	3,472	7,309	327	197	715	1,359	4,710	1
TOTAL	40,787	35,844	76,639	1,573	1,241	5,122	16,316	52,385	2

SOURCE: Michigan Department of Public Health, special release.

a. Cause of death ranking is based on the list of 72 Selected Causes of Death used by the National Center for Health Statistics beginning in 1979.

b. Male and female deaths do not add to total due to eight deaths with sex unknown.

c. Includes bronchitis, emphysema, asthma, and other chronic obstructive pulmonary diseases and allied conditions.

TABLE III-11. DEATH RATES AMONG MICHIGAN RESIDENTS, BY AGE AND SEX[a]: 1983 AND 1984

Age	1983			1984		
	Male	Female	Total	Male	Female	Total
All ages	915.2	763.0	837.1	915.9	771.8	841.9
Under 1 year	1,244.4	1,047.9	1,148.0	1,309.2	1,075.3	1,194.5
1-14 years	38.0	28.7	33.5	29.0	43.6	36.5
15-24 years	120.8	41.0	81.2	117.9	45.7	82.1
25-34 years	171.8	72.1	121.3	171.8	72.5	121.5
35-44 years	297.7	158.5	226.8	312.1	170.6	240.1
45-54 years	697.0	391.9	540.0	661.5	393.5	523.6
55-64 years	1,697.8	966.2	1,310.0	1,669.2	929.6	1,276.4
65-74 years	4,309.4	2,312.6	3,181.6	4,160.7	2,269.9	3,090.4
75-84 years	9,530.5	5,578.0	7,036.4	9,643.9	5,692.3	7,139.8
85 and over	18,631.4	15,187.6	16,219.2	19,166.6	14,901.3	16,167.2

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1984, (Lansing: 1986), Table 2.5.

NOTE: Rates per 100,000 population.

a. Deaths with sex or race not stated were randomly allocated prior to computation of age-specific death rates. Deaths with age not stated were included in the category 85 and over.

TABLE III-13. LIFE EXPECTANCY AT BIRTH, BY SEX, MICHIGAN AND U.S. RESIDENTS, SELECTED YEARS: 1920-1984

Year	Michigan[a] Male life expectancy	Michigan[a] Female life expectancy	United States Male life expectancy	United States Female life expectancy
1920	55.1	56.0	53.6	54.6
1930	59.8	62.8	58.1	61.6
1940	63.4	67.4	60.8	65.2
1950	65.7	71.2	65.6	71.1
1960	67.1	73.3	66.6	73.1
1970	67.2	74.6	67.1	74.7
1972	67.3	74.9	67.4	75.1
1973	67.4	75.0	67.6	75.3
1974	68.0	75.3	68.1	75.8
1975	68.5	75.7	68.7	76.6
1976	69.0	75.9	69.0	76.8
1977	69.3	76.3	69.3	77.2
1978	69.6	76.4	69.5	77.3
1979	70.0	76.8	69.9	77.8
1980	70.0	76.9	70.0	77.4
1981	70.2	76.9	70.4	77.8
1982	70.4	77.2	70.9	78.1
1983	70.5	77.1	71.0[b]	78.2[b]
1984	70.5	77.1	71.1[b]	78.3[b]

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1984* (Lansing: 1986), Table 2.70.

a. Michigan data for 1920, 1930, and 1940 are for white only.

b. Estimate based on a 10 percent sample of deaths.

TABLE III-14. LIFE EXPECTANCY AT BIRTH, BY SEX AND RACE, MICHIGAN RESIDENTS: 1950, 1960, 1970, AND 1984

Population subgroup	1950	1960	1970	1984
White				
Female	71.9	74.0	75.3	77.8
Male	66.2	67.5	68.2	71.5
Total white	68.8	70.5	71.6	74.7
All other				
Female	63.4	67.7	69.4	72.9
Male	60.4	63.6	61.0	64.7
Total all other	61.8	65.6	65.0	68.8
Total				
Female	71.2	73.3	74.6	77.1
Male	65.7	67.1	67.2	70.5
Total population	68.3	70.0	70.8	73.9

SOURCE: Michigan Department of Public Health, *Michigan Health Statistics, 1984* (Lansing: 1986), Table 2.71.

TABLE III-16. LIVE BIRTHS AND DEATHS AMONG MICHIGAN RESIDENTS, BY COUNTY: 1983 AND 1984

	Live births				Deaths			
	Number		Rate[a]		Number		Rate[a]	
County	1983	1984	1983	1984	1983	1984	1983	1984
Alcona	98	127	9.8	12.9	126	142	12.6	14.4
Alger	131	107	15.1	12.1	105	84	12.1	9.5
Allegan	1,322	1,377	16.0	16.3	658	657	8.0	7.8
Alpena	438	393	13.8	12.6	290	230	9.2	7.3
Antrim	223	242	13.4	14.4	182	192	10.9	11.4
Arenac	205	236	13.5	15.6	166	163	10.9	10.8
Baraga	107	114	12.7	13.7	112	96	13.3	11.5
Barry	662	673	14.4	14.5	337	362	7.3	7.8
Bay	1,723	1,610	14.7	13.7	968	950	8.2	8.1
Benzie	175	141	15.9	12.7	123	141	11.2	12.7
Berrien	2,538	2,413	15.3	14.8	1,471	1,456	8.9	8.9
Branch	650	596	16.6	15.4	388	393	9.9	10.2
Calhoun	1,940	1,992	13.9	14.5	1,317	1,186	9.4	8.6
Cass	665	594	14.1	12.4	425	415	9.0	8.7
Charlevoix	326	325	16.4	16.5	206	194	10.4	9.8
Cheboygan	330	298	15.6	14.3	186	218	8.8	10.4
Chippewa	367	399	12.6	13.8	302	281	10.4	9.8
Clare	350	356	14.3	14.4	292	293	12.0	11.8
Clinton	859	771	15.7	13.9	308	329	5.6	6.0
Crawford	168	175	17.2	17.8	97	117	9.9	11.9
Delta	584	529	14.8	13.4	338	321	8.5	8.1
Dickinson	357	377	14.1	14.6	329	304	13.0	11.8
Eaton	1,222	1,215	13.9	13.6	561	615	6.4	6.9
Emmet	345	401	14.5	17.0	240	228	10.1	9.7
Genesee	6,660	6,582	15.0	15.2	3,385	3,406	7.6	7.8
Gladwin	322	277	15.2	13.0	207	204	9.8	9.6
Gogebic	190	241	9.7	12.5	252	269	12.9	13.9
Grand Traverse	882	958	15.6	16.8	429	432	7.6	7.6
Gratiot	628	552	15.7	13.9	407	366	10.2	9.2
Hillsdale	596	617	14.3	14.8	367	373	8.8	8.9
Houghton	499	496	12.9	13.0	424	446	10.9	11.7
Huron	543	538	15.2	14.9	378	401	10.6	11.1
Ingham	4,365	4,323	15.9	15.9	1,641	1,724	6.0	6.3
Ionia	888	872	17.0	16.6	383	406	7.3	7.8
Iosco	569	602	18.6	19.9	305	289	10.0	9.6
Iron	177	156	13.0	11.1	221	204	16.3	14.6
Isabella	737	664	13.5	12.2	299	323	5.5	5.9
Jackson	2,006	1,977	13.6	13.6	1,313	1,261	8.9	8.7
Kalamazoo	2,989	3,153	13.7	14.6	1,539	1,501	7.1	7.0
Kalkaska	211	201	18.6	17.5	90	106	7.9	9.2
Kent	8,215	8,666	17.8	18.8	3,578	3,525	7.8	7.6
Keweenaw	21	25	10.5	12.1	32	33	16.0	15.9
Lake	104	102	12.2	12.1	121	108	14.2	12.8

TABLE III-16. LIVE BIRTHS AND DEATHS AMONG MICHIGAN RESIDENTS, BY COUNTY: 1983 AND 1984

	Live births				Deaths			
	Number		Rate[a]		Number		Rate[a]	
County	1983	1984	1983	1984	1983	1984	1983	1984
Lapeer	991	1,056	14.4	15.2	432	483	6.3	7.0
Leelanau	193	207	13.6	14.4	135	152	9.5	10.6
Lenawee	1,352	1,261	15.3	14.3	717	693	8.1	7.9
Livingston	1,337	1,443	13.8	14.3	590	602	6.1	6.0
Luce	78	92	13.0	15.4	53	91	8.8	15.2
Mackinac	142	139	14.1	13.6	126	117	12.5	11.4
Macomb	8,957	9,053	13.0	13.2	4,978	5,093	7.2	7.4
Manistee	250	287	11.3	12.8	286	253	12.9	11.3
Marquette	1,202	1,189	16.5	16.4	522	486	7.1	6.7
Mason	348	369	13.2	14.0	295	247	11.2	9.3
Mecosta	411	465	11.2	12.5	277	253	7.6	6.8
Menominee	389	391	15.2	15.1	284	273	11.1	10.5
Midland	1,136	1,105	15.3	14.6	438	413	5.9	5.5
Missaukee	180	186	17.5	17.6	86	100	8.4	9.5
Monroe	1,813	1,819	14.1	13.9	987	895	7.7	6.8
Montcalm	781	786	15.8	15.8	454	452	9.2	9.1
Montmorency	103	116	13.1	14.9	96	104	12.2	13.4
Muskegon	2,482	2,663	15.9	17.1	1,334	1,351	8.5	8.7
Newaygo	550	598	15.3	16.5	308	304	8.6	8.4
Oakland	13,304	13,818	13.2	13.8	7,377	7,509	7.3	7.5
Oceana	382	380	17.7	17.3	202	220	9.4	10.0
Ogemaw	253	265	15.4	15.2	216	201	13.1	11.5
Ontonagon	116	106	11.6	10.9	102	109	10.2	11.3
Osceola	312	331	15.9	15.6	192	188	9.8	9.4
Oscoda	112	121	16.5	17.9	109	118	16.0	17.1
Otsego	265	240	17.3	15.6	154	119	10.1	7.8
Ottawa	2,759	2,764	17.1	16.8	1,028	982	6.4	6.0
Presque Isle	180	189	13.6	13.6	154	146	11.0	10.5
Roscommon	209	214	11.8	11.8	225	256	12.7	14.1
Saginaw	3,267	3,355	14.8	15.3	1,711	1,723	7.7	7.9
St. Clair	1,966	2,106	14.2	15.3	1,190	1,281	8.6	9.3
St. Joseph	891	950	15.7	16.5	482	536	8.5	9.3
Sanilac	634	586	16.1	14.6	378	397	9.6	9.9
Schoolcraft	118	116	14.1	13.7	97	88	11.6	10.4
Shiawassee	1,000	1,032	14.6	15.0	458	536	6.7	7.8
Tuscola	768	815	13.9	14.7	434	431	7.9	7.8
Van Buren	1,040	1,014	15.5	15.2	607	664	9.0	10.0
Washtenaw	3,784	3,868	14.1	14.8	1,460	1,451	5.4	5.6
Wayne	32,174	33,452	14.3	15.3	22,506	22,057	10.0	10.1
Wexford	399	378	15.3	14.5	258	258	9.9	9.9
Not stated	1	5	--	--	3	23	--	--
MICHIGAN	133,026	135,782	14.5	15.0	76,639	76,401	8.4	8.4

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1984 (Lansing, 1986), Table 4.9-4.10.

a. Rate per 1,000 population.

TABLE III-12. DEATHS FROM ACCIDENTS BY EXTERNAL CAUSE OF INJURY, MICHIGAN RESIDENTS: 1975-1983[a]

Cause of injury	1975	1976	1977	1978	1979	1980	1981	1982	1983
Transport, total	1,961	2,093	2,094	2,237	2,076	1,979	1,819	1,645	1,502
Motor vehicle	1,841	1,993	1,993	2,138	1,967	1,880	1,727	1,555	1,419
Railroad	10	9	8	13	9	5	5	15	8
Other road vehicle, nontraffic	4	6	2	2	6	10	5	7	5
Water transportation	56	35	33	58	40	42	35	41	48
Air transportation	50	50	58	26	52	40	47	26	22
Other vehicle accidents	--	--	--	--	2	2	--	1	--
Nontransport, total	1,978	1,763	1,781	1,663	1,662	1,557	1,507	1,395	1,358
Poisoning	246	223	156	162	159	148	149	176	141
Falls	618	580	564	537	549	485	468	428	475
Blow from falling object	32	35	45	34	46	43	33	34	20
Machinery	32	22	21	19	38	43	55	37	42
Electric current	46	30	55	30	28	36	29	23	20
Fire and explosion of combustible material	274	251	311	245	276	234	249	210	193
Hot substance or object, caustic or corrosive material & steam	12	5	3	11	8	9	10	3	6
Firearm	67	53	60	37	58	53	51	34	32
Inhalation or ingestion of food or other object	139	143	105	141	144	137	129	145	117
Mechanical suffocation	38	41	28	38	44	37	37	22	37
Drowning or submersion	293	235	238	205	185	213	183	163	172
Other causes	181	145	195	204	127	119	114	120	103
Surgical & medical misadventures & late complications, late effects of injury and poisoning[b]	63	56	70	70	101	91	64	73	87
TOTAL	4,002	3,912	3,945	3,970	3,839	3,627	3,390	3,113	2,947

SOURCE: Michigan Department of Public Health, special release.

a. Deaths in 1979-1983 are coded by the 9th Revision International Classification of Diseases, WHO, while those in 1975-1978 were coded by the 8th Revision International Classification of Diseases, Adapted, National Center for Health Statistics. Comparability ratios are not available so comparisons of death rates for these categories between years prior to 1979 and years since 1979 should be made with caution.

b. 9th Revision ICD codes used are E870-E879 and E929-E949. 8th Revision ICDA codes used are E930-E949.

TABLE III-15. REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES IN MICHIGAN, SELECTED PERIODS: 1930-1984

	Annual average				Annual total			
Disease	1930-1939	1940-1949	1950-1959	1960-1969	1981	1982	1983	1984
Diphtheria	1,121	245	66	2	0	0	0	0
Scarlet fever[a]	15,860	7,553	6,745	11,656	13,529	12,302	11,157	n.a.
Smallpox	445	26	0	0	0	0	0	0
Typhoid fever	373	85	31	9	26	14	10	9
Whooping cough	11,815	8,676	3,464	884	30	34	43	31
Measles	28,467	29,939	28,907	21,569	34	64	8	464
Hepatitis[b] (includes infectious, serum & unsp.	0	44	748	2,798	1,700	1,745	1,788	1,728
Tuberculosis[c] (all forms)	5,897	5,967	5,559	3,181	931	864	790	661
Meningococcal infections[d]	190	257	164	127	93	81	91	90
Poliomyelitus	393	844	1,593	18	0	0	0	0
Syphilis	10,670	13,726	5,495	4,824	1,053	921	731	749
Gonorrhea	6,931	10,176	8,858	13,612	32,524	32,848	34,065	34,839
Chancroid	180	277	106	99	32	26	19	n.a.

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1984 (Lansing: 1986), Table 4.5

[a] Streptococcal sore throat including scarlet fever.

[b] No cases tabulated prior to 1945. Figure shown for the period 1940-1949 is average of 1945-1949.

[c] Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, case counts and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

[d] Prior to 1952 data were for meningococcic meningitis.

TABLE III-17. MARRIAGES IN MICHIGAN, BY ORDER OF MARRIAGE AND AGE OF BRIDE AND GROOM: 1983

Age	Bride, order of marriage						Groom, order of marriage					
	First	Second	Third	Fourth or more	Not stated	Total	First	Second	Third	Fourth or more	Not stated	Total
Under 15	9	0	0	0	1	10	0	0	0	0	0	0
15	68	0	0	0	5	73	1	0	0	0	0	1
16	853	1	0	0	2	856	47	0	0	0	0	47
17	1,745	3	0	0	3	1,751	348	0	0	0	1	349
18	4,375	28	1	0	1	4,405	1,526	2	0	0	3	1,531
19	5,607	76	3	0	2	5,688	2,872	7	0	0	1	2,880
20-24	26,934	2,538	92	2	14	29,580	25,467	1,046	20	0	9	26,542
25-29	10,331	5,310	662	82	3	16,388	15,544	4,300	320	16	2	20,182
30-34	2,428	4,563	1,051	169	1	8,212	4,286	4,920	871	88	2	10,167
35-39	558	2,857	907	256	0	4,578	1,074	3,786	1,076	207	1	6,144
40-44	167	1,643	679	223	0	2,712	321	2,249	829	236	0	3,635
45-49	88	1,003	373	149	0	1,613	152	1,429	570	189	0	2,340
50-54	49	667	240	77	0	1,033	80	993	419	131	1	1,624
55-59	28	398	171	58	0	655	73	770	319	118	0	1,280
60-64	23	428	132	26	0	609	52	524	218	57	0	851
65-69	12	250	97	28	1	388	23	424	153	24	1	625
70-74	3	146	44	14	0	207	9	252	83	34	0	378
75 and over	1	78	57	11	0	147	9	209	84	21	0	323
Not stated	3	0	2	0	0	5	7	4	0	0	0	11
MICHIGAN TOTAL	53,282	15,989	4,511	1,095	33	78,910	51,891	20,915	4,962	1,121	21	78,910

SOURCE: Michigan Department of Public Health, special release.

TABLE III-19. PATIENTS, RESIDENTS AND NUMBER OF EMPLOYEES IN STATE MENTAL HEALTH FACILITIES: 1955-1984

End of Fiscal year	Patients in state psychiatric hospitals	Employees in state psychiatric hospitals	Residents in centers for developmental disabilities	Employees in centers for developmental disabilities	Total patients and residents	Total employees in state facilities
1955	17,075	4,997	9,025	2,475	26,100	7,472
1960	19,059	5,656	11,261	3,193	30,320	9,569
1965	17,053	6,275	12,516	4,882	29,569	11,157
1970	11,134	7,698	11,844	6,338	22,978	14,036
1975	4,925	7,399	6,537	5,902	11,462	13,301
1976	4,354	6,620	6,191	6,434	10,545	13,054
1977	4,405	7,098	6,047	7,196	10,452	14,294
1978	4,779	7,657	5,728	7,850	10,507	15,507
1979	4,712	7,904	5,142	8,474	9,854	16,378
1980	4,527	7,803	4,371	7,153	8,898	14,956
1981	4,481	6,113	3,574	5,561	8,055	11,674
1982	4,383	6,158	2,973	4,641	7,356	10,799
1983	4,235	6,481	2,594	4,330	6,829	10,811
1984	4,391	6,586	2,376	4,173	6,767	10,759

SOURCE: Michigan Department of Mental Health, special release.

TABLE III-22. UTILIZATION OF COMMUNITY HOSPITALS IN MICHIGAN: 1967-1983

Year	Hospitals[a]	Beds	Admissions	Occupancy (percent)	Average daily census
1967	199	32,063	1,104,893	80.6	25,848
1968	198	32,426	1,099,034	81.2	26,339
1969	200	32,802	1,138,246	81.5	26,743
1970	197	33,136	1,149,799	80.4	26,625
1971	199	33,851	1,174,859	79.5	26,928
1972	201	35,464	1,229,295	79.5	28,186
1973	202	36,447	1,266,177	79.5	28,962
1974	211	38,120	1,354,383	79.9	30,447
1975	210	39,089	1,383,654	79.4	31,021
1976	210	39,695	1,394,464	77.5	30,755
1977	212	40,146	1,426,706	76.7	30,812
1978	207	40,097	1,417,078	76.4	30,639
1979	239	50,255	1,492,926	78.4	39,420
1980	236	49,369	1,508,201	80.0	39,509
1981	236	48,963	1,496,638	79.5	38,926
1982	233	48,328	1,466,733	78.8	38,085
1983	231	47,812	1,449,738	78.4	37,486

SOURCE: American Hospital Association, Hospital Statistics 1972 through 1984 (Chicago: annually) Table 5C; and American Hospital Association, Hospitals, Journal of the American Hospital Association, Guide Issue, 1967 through 1971 (Chicago: annually).

a. Hospitals accepted for registration by the American Hospital Association; excludes hospital units of institutions.

IV. EDUCATION

The Michigan Department of Education's Michigan Educational Statistics and Fact Book on Higher Education are the sources of most data relating to the educational system in this state. The department publishes numerous other items, among them Bulletin 1011. Many statistics about education for the states and nation are published by the U.S. Office of Education.

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TABLE IV-1. EDUCATIONAL ATTAINMENT OF THE POPULATION 25 YEARS OLD AND OVER IN MICHIGAN, BY COUNTY: CENSUS 1980

	Percentage			Percentage	
County	High school graduates	College graduates	County	High school graduates	College graduates
Alcona	59.1	6.9	Lake	49.0	6.8
Alger	63.1	9.4	Lapeer	67.4	8.5
Allegan	64.7	10.1	Leelanau	76.8	19.3
Alpena	63.8	8.8	Lenawee	67.8	11.8
Antrim	68.2	11.8	Livingston	77.2	16.3
Arenac	53.3	6.2	Luce	58.4	11.1
Baraga	65.8	8.2	Mackinac	63.0	9.2
Barry	69.4	10.4	Macomb	69.1	10.7
Bay	64.4	8.9	Manistee	62.2	9.6
Benzie	67.3	12.2	Marquette	75.6	17.5
Berrien	64.8	13.3	Mason	66.0	9.9
Branch	65.3	8.7	Mecosta	69.5	14.9
Calhoun	67.7	11.8	Menominee	67.0	8.1
Cass	63.3	8.0	Midland	76.8	22.7
Charlevoix	69.3	13.1	Missaukee	59.5	7.0
Cheboygan	64.4	9.1	Monroe	63.3	8.8
Chippewa	64.6	11.0	Montcalm	63.8	8.7
Clare	57.8	6.4	Montmorency	60.1	6.4
Clinton	72.9	11.3	Muskegon	65.2	10.6
Crawford	70.9	9.5	Newaygo	60.5	8.8
Delta	68.7	10.4	Oakland	77.8	24.0
Dickinson	69.4	10.4	Oceana	63.6	9.2
Eaton	78.0	15.8	Ogemaw	57.4	6.7
Emmet	75.4	17.5	Ontonagon	64.6	8.9
Genesee	67.7	10.9	Osceola	61.7	8.3
Gladwin	57.4	6.0	Oscoda	59.3	7.7
Gogebic	65.6	9.5	Otsego	79.8	14.0
Grand Traverse	77.1	19.0	Ottawa	69.1	14.6
Gratiot	69.4	11.0	Presque Isle	56.9	7.5
Hillsdale	68.6	9.8	Roscommon	62.8	8.0
Houghton	63.2	14.3	Saginaw	65.7	11.2
Huron	57.3	7.9	St. Clair	65.0	9.2
Ingham	77.9	25.9	St. Joseph	65.7	9.2
Ionia	67.2	8.0	Sanilac	60.8	7.5
Iosco	67.9	11.2	Schoolcraft	58.7	9.1
Iron	63.4	10.0	Shiawassee	67.6	9.2
Isabella	70.8	20.6	Tuscola	62.6	7.8
Jackson	69.1	12.2	Van Buren	62.0	10.1
Kalamazoo	75.7	23.0	Washtenaw	80.9	36.0
Kalkaska	62.6	7.8	Wayne	61.4	11.1
Kent	70.8	16.2	Wexford	62.5	10.3
Keweenaw	49.7	7.0	MICHIGAN	67.9	14.2

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer tape.

TABLE IV-2. STUDENT ENROLLMENT, TEACHERS, STUDENT-TEACHER RATIO, AVERAGE TEACHER SALARY, AND NUMBER OF SCHOOL DISTRICTS IN MICHIGAN. PUBLIC SCHOOLS ONLY, SCHOOL YEARS: 1963-1964 THROUGH 1984-85

School year	Enrollment[a]	Number of teachers	Student-teacher ratio	Average teacher's salary	Number of districts
1963-64	1,856,895	69,376	26.8	6,474	1,515
1964-65	1,917,890	72,935	26.3	6,745	1,227
1965-66	1,968,403	76,047	25.9	6,896	993
1966-67	2,033,982	80,637	25.2	7,535	866
1967-68	2,079,704	85,346	24.4	8,238	712
1968-69	2,122,915	87,487	24.3	9,134	648
1969-70	2,164,386	89,049	24.3	10,045	638
1970-71	2,178,745	90,672	24.0	11,034	624
1971-72	2,212,505	91,190	24.8	11,671	608
1972-73	2,193,270	93,852	23.4	12,070	602
1973-74	2,159,966	94,221	22.9	12,852	597
1974-75	2,139,720	93,580	22.9	14,059	590
1975-76	2,127,917	92,677	23.0	15,064	587
1976-77	2,081,936	90,780	22.9	15,426	581
1977-78	2,023,944	90,312	22.4	16,445	579
1978-79	1,965,685	88,652	22.2	18,016	576
1979-80	1,910,385	87,487	21.8	19,663	575
1980-81	1,859,934	84,041	22.1	21,779	574
1981-82	1,792,331	78,447	22.9	24,304	574
1982-83	1,742,831	74,814	23.3	25,712	573
1983-84	1,712,103	74,312	23.0	27,104	570
1984-85	1,678,450	75,193	22.3	28,440	567

SOURCE: Michigan Department of Education, Analysis of Michigan Public School Revenues and Expenditures, 1964 through 1985, Bulletin 1011 (Lansing: annually): and Michigan Deaprtment of Education, special release (for number of teachers and ratio, 1964 through 1966).

a. Membership is defined as the number of students enrolled on the fourth Friday after the opening of the school year.

TABLE III-18. NUMBER AND RATE OF MARRIAGES AND DIVORCES TAKING PLACE IN MICHIGAN AND THE UNITED STATES: 1964-1984

	Michigan				United States[a]			
Year	Number of marriages	Rate	Number of divorces	Rate	Number of marriages	Rate[b]	Number of divorces	Rate
1964	73,911	9.1	19,400	2.4	1,725,000	9.0	450,000	2.4
1965	81,247	9.9	20,305	2.5	1,800,000	9.3	479,000	2.5
1966	83,903	10.1	21,727	2.6	1,857,000	9.5	499,000	2.5
1967	84,363	9.8	23,620	3.0	1,927,000	9.7	523,000	2.6
1968	90,984	10.5	25,400	3.0	2,069,000	10.4	584,000	2.9
1969	93,392	10.7	28,347	3.3	2,145,000	10.6	639,000	3.2
1970	91,933	10.4	29,934	3.4	2,158,802	10.6	708,000	3.5
1971	92,134	10.3	31,790	3.5	2,190,481	10.6	773,000	3.7
1972	94,447	10.5	35,505	3.9	2,282,154	10.9	845,000	4.0
1973	94,486	10.4	37,128	4.1	2,284,108	10.8	915,000	4.3
1974	88,023	9.7	39,940[c]	4.4[c]	2,229,667	10.5	977,000	4.6
1975	82,856	9.1	40,782	4.5	2,152,662	10.0	1,036,000	4.8
1976	82,753	9.1	43,101	4.7	2,154,807	9.9	1,083,000	5.0
1977	86,088	9.4	43,036	4.7	2,178,367	9.9	1,091,000	5.0
1978	88,333	9.6	45,029	4.9	2,282,272	10.3	1,130,000	5.1
1979	89,450	9.7	44,242	4.8	2,331,337	10.4	1,181,000	5.3
1980	86,898	9.4	45,047	4.9	2,390,252	10.6	1,189,000	5.2
1981	85,252	9.2	43,167	4.7	2,422,145	10.6	1,213,000	5.3
1982	82,633	9.0	39,739	4.3	2,456,278	10.6	1,170,000	5.0
1983	78,910	8.6	37,991	4.2	2,444,000[p]	10.5[p]	1,158,000	4.9
1984	80,810	8.9	37,563	4.2	2,487,000[p]	10.5[p]	1,155,000	4.9[p]

SOURCE: Michigan Department of Public Health, Michigan Health Statistics, 1984 (Lansing: 1986), Table 4.1; and National Center for Health Statistics, Vital Statistics of the United States, 1978, vol. 3, Marriage and Divorce (Hyattsville, MD: 1982), and Monthly Vital Statistics Report, (Hyattsville, MD: monthly).

a. United States rates for 1971-1979 have been revised using population estimates based on the 1980 census enumeration.
b. Beginning with 1978, marriage data for the United States included nonlicensed marriages registered in California.
c. Estimate
p.: provisional.

TABLE III-20. BOOK CENSUS OF PATIENTS IN STATE REGIONAL PSYCHIATRIC HOSPITALS, FISCAL YEARS ENDED SEPTEMBER 30, 1983 AND 1984

		Book census, September 30					
		Residents[a]		Nonresidents[b]		Total	
Name of institution	Location	1983	1984	1983	1984	1983	1984
Arnell Engstrom	Traverse City	n.a.	32	n.a.	0	n.a.	32
Caro Regional Mental Health Center	Caro	13	48	1	0	14	48
Center for Forensic Psychiatry	Ann Arbor	225	226	5	4	225	230
Clinton Valley Center	Pontiac	519	503	128	121	647	624
Detroit Psychiatric Institute	Detroit	144	177	43	29	187	206
Fairlawn Center	Pontiac	146	125	102	144	248	269
Hawthorne Center	Northville	111	128	125	102	236	230
Kalamazoo Regional Psychiatric Center	Kalamazoo	625	684	121	89	745	773
Lafayette Clinic	Detroit	92	118	54	48	146	166
Newberry Regional Mental Health Center	Newberry	82	78	23	23	105	101
Northville Regional Psychiatric Hospital	Northville	991	1,070	142	23	1,133	1,093
Pheasant Ridge	Kalamazoo	n.a.	30	n.a.	15	n.a.	45
Walter P. Reuther Psychiatric Hospital	Westland	314	290	3	9	317	299
Traverse City Regional Psychiatric Hospital	Traverse City	182	182	0	0	182	182
York Woods	Ypsilanti	n.a.	62	n.a.	15	n.a.	77
Ypsilanti Regional Psychiatric Hospital	Ypsilanti	651	638	122	76	771	714
MICHIGAN		4,095	4,391	969	698	4,956	5,089

SOURCE: Michigan Department of Mental Health, special release.

NOTE: Facilities for mentally ill.

a. In house and on authorized or unauthorized leave.

b. Community living facilities, foster family care, and convalescent status.

TABLE III-21. BOOK CENSUS OF PATIENTS IN CENTERS FOR DEVELOPMENTAL DISABILITIES, FISCAL YEARS ENDED SEPTEMBER 30, 1983 AND 1984

Name of institution	Location	Book census, September 30					
		Residents[a]		Nonresidents[b]		Total	
		1983	1984	1983	1984	1983	1984
Caro Regional Mental Health Center	Caro	442	412	96	101	538	513
Coldwater Regional Center for Developmental Disabilities	Coldwater	533	499	130	46	663	545
Macomb-Oakland Regional Center	Mt. Clemens	215	285	1,036	916	1,251	1,201
Mt. Pleasant Regional Center for Developmental Disabilities	Mt. Pleasant	563	733	323	574	886	1,307
Muskegon Regional Center for Developmental Disabilities	Muskegon	482	458	85	117	567	575
Newberry Regional Mental Health Center	Newberry	205	185	27	23	232	208
Oakdale Regional Center for Developmental Disabilities	Lapeer	586	588	263	256	849	844
Plymouth Center for Human Development[c]	Northville	88	--	463	--	551	--
Southgate Regional Center for Developmental Disabilities	Southgate	204	175	587	271	791	446
Wayne Community Living Services	Northville	--	129	--	705	--	834
MICHIGAN		3,318	3,464	3,010	3,009	6,328	6,473

SOURCE: Michigan Department of Mental Health, special release.

NOTE: Facilities for mentally retarded.

a. In house and on authorized or unauthorized leave.

b. Community living facilities, foster family care, and convalescent status.

c. Facility closed end of year 1983.

TABLE IV-5. SCHOOL ENROLLMENT IN MICHIGAN, BY TYPE OF SCHOOL: CENSUS 1980

Enrollment and type of schools	White	Black	Total
Nursery school	84,466	16,558	104,105
Public	40,918	10,255	52,728
Church-related	15,128	2,847	18,555
Other private	28,420	3,456	32,822
Kindergarten	112,592	23,318	140,080
Public	100,943	21,083	125,660
Church-related	9,694	1,334	11,439
Other private	1,955	901	2,981
Elementary (1 to 8 years)	1,018,736	210,209	1,259,975
Public	896,529	195,478	1,119,575
Church-related	115,955	12,542	131,564
Other private	6,252	2,189	8,836
High school (1 to 4 years)	575,386	100,515	688,726
Public	523,950	94,945	630,644
Church-related	45,642	4,302	50,838
Other private	5,794	1,268	7,224
College	450,476	68,250	531,671
Public	397,411	60,952	469,423
TOTAL (persons 3 years old and over)	2,241,656	418,850	2,724,557

SOURCE: Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Michigan (Washington, D.C.: 1983), Volume 1, Chapter C, Section 1, PC80-1-C24, Tables 66 and 76.

TABLE IV-7. DROPOUT RATES IN GRADES 9 - 12 IN MICHIGAN PUBLIC SCHOOLS BY COUNTY: 1983-1984

	Dropout rate				Dropout rate		
County	Male	Female	Total	County	Male	Female	Total
Alcona	4.5	4.5	4.5	Lake	2.9	3.8	6.7
Alger	1.0	2.6	1.9	Lapeer	3.5	3.1	3.3
Allegan	5.8	3.2	4.5	Leelanau	1.6	.3	.9
Alpena	8.7	7.6	8.2	Lenawee	5.2	3.5	4.4
Antrim	4.6	1.7	3.1	Livingston	4.1	2.4	3.3
Arenac	6.4	3.4	4.9	Luce	3.3	3.5	3.4
Baraga	8.5	4.5	6.4	Mackinac	3.5	1.9	2.7
Barry	5.7	4.2	5.0	Macomb	4.6	3.1	3.8
Bay	3.1	1.1	2.1	Manistee	1.7	2.3	2.0
Benzie	.9	1.0	1.0	Marquette	1.7	2.2	2.0
Berrien	8.2	5.9	7.1	Mason	4.5	3.3	3.9
Branch	5.9	2.7	4.4	Mecosta	4.7	4.7	4.7
Calhoun	5.9	4.6	5.3	Menominee	2.8	1.4	2.2
Cass	8.1	8.4	8.3	Midland	3.8	2.7	3.3
Charlevoix	8.0	6.3	7.2	Missaukee	8.1	3.8	6.0
Cheboygan	2.7	3.1	2.9	Monroe	5.5	4.9	5.2
Chippewa	18.2	9.5	12.5	Montcalm	5.3	5.3	5.3
Clare	7.1	4.6	5.9	Montmorency	5.6	3.9	4.8
Clinton	2.9	1.5	2.2	Muskegon	6.5	4.7	5.6
Crawford	10.0	8.0	9.0	Newaygo	3.7	3.6	3.6
Delta	4.4	2.6	3.4	Oakland	5.2	3.8	4.5
Dickinson	2.6	2.1	2.4	Oceana	7.4	3.6	5.5
Eaton	2.6	2.5	2.6	Ogemaw	12.0	7.0	9.6
Emmet	3.6	3.0	3.3	Ontonagon	1.5	1.2	1.4
Genesee	6.7	5.6	6.1	Osceola	5.0	4.1	4.6
Gladwin	5.1	4.6	4.9	Oscoda	2.9	3.8	3.3
Gogebic	2.1	1.7	1.9	Otsego	5.0	1.8	3.4
Grand Traverse	3.5	1.7	2.7	Ottawa	4.2	2.9	3.5
Gratiot	3.3	2.0	2.6	Presque Isle	3.7	2.1	2.9
Hillsdale	5.8	2.9	4.4	Roscommon	2.7	5.9	4.2
Houghton	3.8	2.1	3.0	Saginaw	5.2	3.3	4.2
Huron	2.9	1.7	2.3	St. Clair	3.8	3.5	3.6
Ingham	6.0	4.6	5.3	St. Joseph	5.0	3.6	4.3
Ionia	4.0	3.5	3.7	Sanilac	4.4	2.6	3.5
Iosco	6.4	3.4	4.9	Schoolcraft	5.2	3.7	4.5
Iron	1.7	0.0	.9	Shiawassee	4.7	3.5	4.1
Isabella	3.9	2.0	3.0	Tuscola	3.6	2.5	3.1
Jackson	6.6	3.8	5.2	Van Buren	4.2	3.3	3.8
Kalamazoo	5.8	5.5	5.6	Washtenaw	4.2	3.3	3.8
Kalkaska	13.8	8.9	11.4	Wayne	9.0	8.7	8.9
Kent	4.7	3.5	4.1	Wexford	11.3	8.4	9.9
Keweenaw	N.A.	N.A.	N.A.	MICHIGAN	5.9	4.9	5.4

SOURCE: Michigan Department of Education, special release.

TABLE IV-8. EDUCATIONAL PLANS OF MICHIGAN PUBLIC AND NON-PUBLIC HIGH SCHOOL GRADUATES: 1976-1983

Gender category and year	Intend to attend college, degree-granting	Intend to attend non-degree granting institution	No reported intentions	Total
Female Total				
1976	33,042	3,422	37,495	73,959
1977	32,689	3,064	39,378	75,131
1978	32,623	2,933	38,439	73,995
1979	32,623	2,822	37,709	73,154
1980	33,233	3,107	32,675	69,015
1981	33,702	2,932	32,658	69,292
1982	33,238	3,191	30,414	66,843
1983	31,457	2,888	28,968	63,313
Male Total				
1976	30,477	3,325	38,296	72,098
1977	29,758	3,065	40,016	72,839
1978	29,239	2,903	38,353	70,495
1979	29,085	2,964	37,536	69,585
1980	30,079	3,142	33,868	67,089
1981	30,131	3,026	33,680	66,837
1982	30,313	3,557	31,931	65,801
1983	28,520	3,662	30,171	62,353
Grand Total				
1976	63,519	6,747	75,791	146,057
1977	62,447	6,129	79,394	147,970
1978	61,862	5,836	76,792	144,490
1979	61,708	5,786	75,245	142,739
1980	63,312	6,249	66,543	136,104
1981	63,833	5,958	66,338	136,129
1982	63,551	6,748	62,345	132,644
1983	59,977	6,250	59,439	125,666

SOURCE: Michigan Department of Education, special release.

TABLE IV-3. NUMBER OF TEACHING POSITIONS, AVERAGE TEACHER'S SALARY, AND PUPIL MEMBERSHIP OF PUBLIC SCHOOLS IN MICHIGAN, BY SIZE OF SCHOOL DISTRICT: 1970-1971 AND 1984-1985

Size of district	Number of districts		Teaching positions		Average teacher's salary		Audited Pupil membership, Septmeber	
	1970-1971	1984-1985	1970-1971	1984-1985	1970-1971	1984-1985	1970-1971	1984-1985
50,000 and over	1	1	11,136	8,403	$11,475	$28,221	89,382	206,790
20,000 - 49,999	12	4	11,528	4,792	11,930	30,172	339,662	116,219
10,000 - 19,999	20	14	12,340	9,474	11,825	31,864	285,483	205,091
5,000 - 9,999	64	45	18,509	14,549	11,368	30,973	442,596	319,397
4,500 - 4,999	14	15	2,672	3,081	10,767	28,988	66,211	72,038
4,000 - 4,499	17	17	2,914	3,222	10,667	29,646	71,837	71,717
3,500 - 3,999	28	17	4,270	2,653	10,674	28,399	102,865	62,558
3,000 - 3,499	18	26	2,415	3,757	10,211	28,058	58,426	83,755
2,500 - 2,999	31	36	559	4,497	10,076	27,876	86,030	98,519
2,000 - 2,499	63	50	5,783	5,149	10,052	26,975	40,414	113,535
1,500 - 1,999	65	79	4,780	6,331	9,690	25,370	16,072	138,972
1,000 - 1,499	83	87	4,361	4,969	9,721	23,883	4,432	106,395
500 - 999	79	90	2,570	3,369	9,070	22,474	57,480	66,596
Below 500	129	86	835	947	8,387	20,513	17,855	16,876
TOTAL	624	567	90,672	75,193	11,034	28,440	2,178,745	1,678,458

SOURCE: Michigan Department of Education, Analysis of Michigan Public School Revenues and Expenditures, 1970-1971 and 1984-1985, Bulletin 1011 (Lansing: annually).

TABLE IV-4. ENROLLMENT BY GRADES IN MICHIGAN PUBLIC SCHOOLS, ON THE FOURTH FRIDAY FOLLOWING LABOR DAY: 1976-1985

Grade	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
K	152,787	136,843	129,592	125,332	122,455	116,753	120,826	121,425	126,336
1	154,492	149,567	135,997	128,961	123,662	119,175	113,917	117,409	118,412
2	143,778	148,878	144,113	130,838	123,337	116,583	112,666	108,431	111,386
3	137,875	139,365	144,565	140,107	126,503	118,002	112,133	109,146	105,511
4	139,795	135,434	136,680	141,608	136,255	122,605	114,818	109,588	107,143
5	142,170	137,803	133,776	134,610	139,185	132,651	119,662	112,740	108,122
6	148,637	141,603	137,098	133,242	133,698	136,780	131,480	119,718	113,222
7	159,610	149,898	142,851	138,511	133,885	132,859	136,656	131,619	121,119
8	162,193	157,603	148,293	140,782	135,966	130,218	129,706	133,733	129,372
9	174,405	171,649	166,411	156,999	149,403	142,775	135,946	141,554	145,702
10	172,489	166,038	161,592	156,850	146,734	137,584	133,892	128,375	128,627
11	157,875	155,259	149,912	145,963	142,779	134,019	129,226	122,050	117,599
12	143,093	139,565	138,931	132,476	130,699	128,326	121,036	113,653	109,706
Other[a]	92,737	95,661	96,346	104,158	115,504	124,992	135,588	147,327	142,106
TOTAL	2,081,936	2,025,166	1,966,157	1,910,437	1,860,065	1,793,322	1,745,552	1,716,768	1,684,363

SOURCE: Michigan Department of Education, Michigan Educational Statistics, (Lansing: annually), Table 3, and special release for (1980-81, 1981-82, 1982-83, 1983-84, and 1984-85 data).

[a] Includes students of elementary and secondary ungraded classes, ungraded special needs and postgraduate. Does not include prekindergarteners.

TABLE IV-6. GENERAL FUND REVENUE SOURCES AND CURRENT OPERATING EXPENDITURES FOR PUBLIC SCHOOLS IN MICHIGAN: 1973-1974 THROUGH 1984-1985

School year	Revenues Local ($1,000)	 State ($1,000)	 Federal ($1,000)	 Other[a] ($1,000)	 Total[b] ($1,000)	Per pupil revenue	Total current operating expenditures ($1,000)	Per pupil current operating expenditures
1973-74	1,378,727	945,116	116,182	4,977	2,445,002	1,131.96	2,271,936	1,051.86
1974-75	1,544,679	991,396	145,713	5,714	2,687,502	1,256.00	2,548,409	1,191.01
1975-76	1,715,734	1,028,155	161,897	4,644	2,910,430	1,367.74	2,772,531	1,302.94
1976-77	1,614,153	1,193,332	149,280	6,715	2,963,479	1,423.42	2,934,395	1,409.46
1977-78	1,804,754	1,290,231	192,513	5,547	3,293,046	1,627.04	3,215,655	1,588.81
1978-79	1,993,161	1,349,221	215,510	6,433	3,564,326	1,813.27	3,500,835	1,780.97
1979-80	2,273,569	1,377,578	226,782	3,837	3,881,765	2,031.93	3,826,569	2,003.04
1980-81	2,633,766	1,207,740	254,153	4,468	4,100,128	2,204.45	4,121,362	2,215.86
1981-82	2,996,860	1,173,373	210,491	4,291	4,385,014	2,446.54	4,392,107	2,450.50
1982-83	3,149,922	1,095,332	187,879	4,575	4,437,709	2,546.26	4,479,188	2,570.06
1983-84	3,228,169	1,285,303	196,075	4,261	4,713,808	2,753.23	4,736,801	2,766.66
1984-85	3,383,114	1,470,427	214,590	4,709	5,072,841	3,022.32	5,041,169	3,003.45

SOURCE: Michigan Department of Education, *Analysis of Michigan Public School Revenues and Expenditures*, 1973 through 1985, *Bulletin 1011* (Lansing: annually).

NOTE: General fund is the fund used to record the operations of the school district pertaining to education, except those specifically described under Building and Site and Debt Retirement funds. Current operating expenditures are the basic expenses of a school district including expenditures for instruction, administration, attendance, health, transportation, fixed charges, operation of plant, and maintenance of plant. The current operating expenditures exclude capital outlay, community services, student services, and outgoing transfers.

a. Intermediate sources, gifts, and bequests.
b. Excludes incoming transfers.

TABLE IV-9. SUMMARY OF PERFORMANCE OF MICHIGAN PUBLIC SCHOOL STUDENTS IN MATHEMATICS AND READING: 1980-1985

Grade	School year	Student participants (number)	Mathematics Category of achievement 1 (lowest)	2	3	4 (Highest)	Student participants (number)	Reading Category of achievement 1 (lowest)	2	3	4 (Highest)
			(percentage)					(percentage)			
4	1980-81	134,555	2.2	6.8	18.6	72.3	134,555	6.1	9.6	13.6	70.7
	1981-82	120,679	2.1	5.8	17.9	74.2	120,759	5.3	8.8	13.0	72.9
	1982-83										
	1983-84	107,418	1.0	3.9	14.6	80.5	107,471	3.9	7.8	12.3	75.9
	1984-85	104,902	.7	3.2	13.6	82.6	104,914	3.3	7.1	11.9	77.7
	1985-86	102,248	.7	3.1	12.5	83.6	102,251	3.0	6.5	11.2	79.3
7	1980-81	131,136	2.7	10.7	27.9	58.7	131,136	2.4	8.5	12.4	76.7
	1981-82	129,791	2.2	10.0	28.4	59.4	130,042	2.1	7.8	12.1	77.9
	1982-83										
	1983-84	128,192	1.5	7.9	26.8	63.8	128,375	1.6	6.5	11.7	80.2
	1984-85	117,500	1.4	7.4	25.6	65.7	117,666	1.4	6.2	11.6	80.8
	1985-86	111,833	1.5	7.4	24.8	66.2	111,980	1.5	6.4	11.7	80.3
10	1980-81	137,807	5.3	13.5	23.4	57.7	137,807	2.2	8.9	15.6	73.3
	1981-82	128,971	4.7	13.4	23.4	58.5	129,585	1.6	7.8	14.3	76.3
	1982-83										
	1983-84	119,242	3.4	10.7	21.4	64.4	119,694	1.2	6.1	12.7	80.0
	1984-85	120,091	2.8	9.7	21.1	66.4	120,395	.9	5.3	12.1	81.6
	1985-86	124,717	2.8	9.2	20.2	67.8	125,044	1.0	5.4	11.8	81.9

SOURCE: Michigan Department of Education, special release.

NOTE: This table presents percentages of the fourth, seventh and tenth grade students in Michigan public schools in each of four categories of achievement of mathematics and reading objectives tested by the Michigan Educational Assessment Program. Category 4 (highest) contains the percentage of students who attained approximately 3/4 or more of the objectives; Category 3 contains the percentage of students who attained roughly 1/2 to 3/4 of the objectives; Category 2 contains the percentage of students who attained about 1/4 to 1/2 of the objectives; while Category 1 (lowest) contains the percentage of students who attained approximately 1/4 or less of the objectives. The lists of mathematics and reading objectives are available from the Michigan Educational Assessment Program, Research, Evaluation and Assessment Services, Michigan Department of Education.

TABLE IV-10. AVERAGE SAT AND ACT SCORES OF MICHIGAN AND U.S. STUDENTS: 1977-1985

	SAT				ACT	
	Math		Verbal		Michigan	U.S.
Year	Michigan	U.S.	Michigan	U.S.		
1977	508	470	454	429	18.9	18.4
1978	511	468	459	429	18.9	18.5
1979	518	467	456	427	18.9	18.6
1980	505	466	452	424	16.9	18.5
1981	508	466	456	424	18.6	18.5
1982	514	467	459	426	18.7	18.4
1983	511	468	458	425	18.6	18.3
1984	515	471	461	426	18.8	18.5
1985	517	475	467	431	18.9	18.6

SOURCE: Michigan Department of Education, special release.

TABLE IV-11. EARNED DEGREES CONFERRED BY HIGHER EDUCATIONAL INSTITUTIONS IN MICHIGAN AND THE UNITED STATES, BY SEX AND LEVEL OF DEGREE: 1971-1982

Year	Bachelor's and first professional		Master's and second professional		Doctor's degrees (Ph.D., Ed.D. etc.)	
	Men	Women	Men	Women	Men	Women
			Michigan **Publicly controlled**			
1971-72	18,262	14,181	7,446	5,194	1,433	261
1972-73	19,238	15,089	7,276	5,218	1,429	306
1973-74	18,764	14,332	7,262	5,592	1,243	328
1974-75	17,721	14,015	7,850	5,920	1,295	311
1975-76	17,762	13,838	8,209	6,636	1,105	373
1976-77	15,888	13,335	8,194	6,818	1,096	361
1977-78	17,051	14,043	7,775	6,792	941	355
1978-79	16,654	14,547	7,356	6,515	965	408
1979-80	16,988	15,033	7,223	6,740	924	372
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	16,978	16,012	6,803	6,485	963	427
			Privately controlled			
1971-72	4,481	2,578	601	408	16	0
1972-73	4,402	2,466	620	389	21	2
1973-74	4,727	2,589	591	372	10	1
1974-75	4,540	2,622	660	457	26	3
1975-76	4,982	2,799	666	494	15	5
1976-77	3,934	2,784	591	495	35	12
1977-78	4,748	3,038	565	426	37	5
1978-79	4,973	3,403	633	392	32	12
1979-80	4,842	3,431	666	427	31	7
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	4,812	3,819	713	367	41	5
			Total			
1971-72	22,743	16,759	8,047	5,602	1,449	261
1972-73	23,640	17,545	7,896	5,607	1,450	308
1973-74	23,491	16,921	7,853	5,964	1,253	329
1974-75	22,251	16,637	8,510	6,377	1,321	314
1975-76	22,743	16,637	8,037	6,042	1,538	480
1976-77	19,822	16,119	8,785	7,313	1,131	373
1977-78	21,799	17,081	8,340	7,218	978	360
1978-79	21,627	17,950	7,989	6,907	997	420
1979-80	21,830	18,464	7,889	7,167	955	379
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	21,790	19,831	7,516	6,852	922	422

TABLE IV-11. EARNED DEGREES CONFERRED BY HIGHER EDUCATIONAL INSTITUTIONS IN MICHIGAN AND THE UNITED STATES, BY SEX AND LEVEL OF DEGREE: 1971-1982 (cont.)

	Bachelor's and first professional		Master's and second professional		Doctor's degrees (Ph.D., Ed.D. etc.)	
Year	Men	Women	Men	Women	Men	Women
			United States Publicly controlled			
1971-72	352,824	270,374	96,468	71,481	18,577	3,205
1972-73	372,890	285,592	99,229	75,991	18,587	3,783
1973-74	383,117	297,812	101,722	83,782	17,897	3,920
1974-75	367,615	296,816	103,509	91,157	17,567	4,612
1975-76	367,854	299,037	105,968	101,241	16,902	4,861
1976-77	336,291	296,242	104,471	104,276	16,119	5,107
1977-78	354,137	306,454	99,206	103,685	15,085	5,386
1978-79	337,628	307,699	91,704	99,411	14,968	5,834
1979-80	337,329	314,697	88,551	98,948	14,555	6,053
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	336,956	329,130	84,030	98,265	14,186	6,703
			Privately controlled			
1971-72	191,828	122,858	53,617	31,208	9,518	2,069
1972-73	195,471	126,754	55,771	33,534	9,988	2,432
1973-74	196,694	131,031	56,622	36,133	9,477	2,532
1974-75	190,039	133,452	58,606	40,379	9,252	2,655
1975-76	193,905	136,700	61,777	44,015	9,371	2,942
1976-77	158,940	132,337	62,418	45,572	8,910	2,987
1977-78	189,482	147,092	62,502	47,423	8,584	3,101
1978-79	187,684	151,947	60,570	48,202	8,509	3,353
1979-80	188,998	158,524	62,198	48,384	8,388	3,619
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	188,631	170,313	61,502	51,749	8,038	3,780
			Total			
1971-72	544,652	393,232	150,085	102,689	28,095	5,274
1972-73	568,361	412,346	155,000	109,525	28,575	6,215
1973-74	579,811	428,843	158,344	119,915	27,374	6,452
1974-75	557,654	430,268	162,115	131,536	26,819	7,267
1975-76	561,759	435,745	167,745	145,256	26,273	7,803
1976-77	551,789	441,219	168,210	150,031	25,150	8,094
1977-78	543,619	453,546	161,708	151,108	23,669	8,487
1978-79	529,362	465,546	152,274	147,613	23,477	9,187
1979-80	526,327	473,221	150,749	147,332	22,943	9,672
1980-81	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1981-82	525,587	499,443	145,532	150,014	22,224	10,483

SOURCE: National Center of Education Statistics, Earned Degrees Conferred, 1975-76, Summary Data (Washington, D.C.: annually), and special release.

TABLE IV-12. OPENING FALL ENROLLMENTS BY TYPE OF MICHIGAN HIGHER EDUCATION INSTITUTIONS (HEADCOUNT): 1960-1985

Year	Public 4-year institutions	Public 2-year institutions	Private institutions	Total
		Headcount		
1960	107,658	27,220	36,398	171,285
1961	112,082	31,619	38,278	181,979
1962	119,834	34,356	39,700	193,890
1963	129,113	38,001	40,611	207,725
1964	143,114	46,123	43,472	232,709
1965	162,312	58,216	47,896	268,424
1966	176,487	69,496	49,462	295,445
1967	187,708	79,698	50,461	317,867
1968	198,419	95,965	50,777	345,161
1969	208,323	115,299	50,759	374,381
1970	217,802	125,553	52,348	395,703
1971	220,165	132,059	51,335	403,559
1972	218,667	137,634	50,658	406,959
1973	221,893	152,715	51,160	425,768
1974	229,627	173,643	55,273	458,543
1975	241,769	197,199	61,081	500,049
1976	236,831	187,622	60,372	484,825
1977	236,618	186,876	60,497	483,991
1978	236,035	187,649	62,810	486,494
1979	240,600	209,554	65,333	514,488
1980	242,907	207,816	66,216	516,939
1981	235,027	211,871	67,509	514,407
1982	226,385	213,204	69,807	509,396
1983	226,999	217,230	73,809	518,038
1984	226,011	205,339	72,798	504,148
1985	229,020	205,049	73,679	507,748

SOURCE: Michigan Department of Education, *Michigan Educational Statistics, 1977-78* (Lansing: 1978), Table 21 (1976); and special release.

TABLE IV-13. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1981-1985

Institution and city	1981	1982	1983	1984	1985
Public baccalaureate institutions					
Central Michigan University, Mt. Pleasant	17,653	17,132	17,259	16,882	17,070
Eastern Michigan University, Ypsilanti	18,766	18,078	18,880	19,210	20,166
Ferris State College, Big Rapids	11,261	11,008	10,767	10,540	10,909
Grand Valley State College, Allendale	6,699	6,366	6,710	7,153	7,667
Lake Superior State College, Sault Ste. Marie	2,559	2,494	2,820	2,783	2,692
Michigan State University, East Lansing	44,887	42,730	41,765	42,193	42,746
Michigan Technological University, Houghton	7,779	7,640	7,414	6,935	6,537
Northern Michigan University, Marquette	9,073	8,377	8,054	7,824	7,599
Oakland University, Rochester	11,644	11,721	12,084	11,971	12,586
Saginaw Valley College, University Center	4,324	4,370	4,612	4,833	4,936
University of Michigan, Ann Arbor	35,677	35,629	34,593	34,467	34,456
University of Michigan, Dearborn	6,575	6,390	6,399	6,321	6,597
University of Michigan, Flint	4,609	5,025	5,707	5,596	5,672
Wayne State University, Detroit	31,522	29,775	29,639	29,070	28,424
Western Michigan University, Kalamazoo	21,999	20,580	20,296	20,233	20,963
TOTAL	235,027	227,315	226,999	226,011	229,020
Public community and junior colleges					
Alpena Community College, Alpena	1,946	1,842	2,006	1,878	1,816
Bay de Noc Community College, Escanaba	1,621	1,626	1,616	1,801	1,893
C.S. Mott Community College, Flint	10,787	10,865	11,432	11,158	10,205
Delta College, University Center	10,013	10,279	10,607	10,243	10,356
Glen Oaks Community College, Centreville	1,173	1,244	1,280	1,213	1,168
Gogebic Community College, Ironwood	1,591	1,600	1,600	1,600	1,329

TABLE IV-13. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1981-1985 (cont.)

Institution and city	1981	1982	1983	1984	1985
Public community and junior colleges (cont.)					
Grand Rapids Junior College, Grand Rapids	8,905	9,207	9,254	8,913	9,790
Henry Ford Community College, Dearborn	16,075	16,403	16,555	14,338	15,375
Highland Park Community College, Highland Park	2,706	2,625	2,623	2,416	2,075
Jackson Community College, Jackson	8,751	5,259	6,146	6,071	6,029
Kalamazoo Valley Community College, Kalamazoo	7,477	7,895	8,141	8,281	8,426
Kellogg Community College, Battle Creek	5,369	5,193	4,660	4,553	4,284
Kirtland Community College, Roscommon	1,418	1,335	1,406	1,333	1,426
Lake Michigan College, Benton Harbor	3,013	2,977	3,025	3,199	3,384
Lansing Community College, Lansing	19,143	19,779	20,808	19,157	19,548
Macomb County Community College, Warren	28,090	28,174	31,152	30,890	29,491
Mid-Michigan Community College, Gladwin	1,582	1,573	1,693	1,762	1,847
Monroe County Community College, Monroe	2,470	2,702	2,937	2,880	2,902
Montcalm Community College, Sidney	1,223	1,237	1,361	1,398	1,727
Muskegon Community College, Muskegon	5,100	5,009	4,908	4,623	5,145
North Central Michigan College, Petoskey	1,965	1,681	1,832	1,629	1,542
Northwestern Michigan College, Traverse City	3,432	3,448	3,354	3,222	3,017
Oakland Community College, Bloomfield Hills	24,000	25,359	26,939	26,605	26,553
St. Clair County Community College, Port Huron	3,655	3,879	3,871	3,885	3,498
Schoolcraft College, Livonia	8,527	8,509	9,012	8,512	8,574
Southwestern Michigan College, Dowagiac	2,238	2,465	2,517	2,365	2,481
Washtenaw Community College, Ann Arbor	8,343	8,247	8,351	7,858	8,087
Wayne County Community College, Detroit	20,325	19,475	17,003	12,408	12,214
West Shore Community College, Scottville	933	1,081	1,141	1,083	1,067
TOTAL	211,871	210,968	217,230	205,337	205,049

TABLE IV-13. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1981-1985 (cont.)

Institution and city	1981	1982	1983	1984	1985
Independent institutions					
Adrian College, Adrian	1,242	1,222	1,187	1,220	1,139
Albion College, Albion	1,876	1,742	1,656	1,569	1,571
Allan/Touro College, Southfield	20	--	1,640	n.a.	n.a.
Alma College, Alma	1,110	1,059	1,004	1,016	1,012
Andrews University, Berrien Springs	3,083	2,851	2,638	3,034	3,032
Aquinas College, Grand Rapids	2,753	2,743	2,279	2,831	2,724
Baker Jr. College of Business, Flint	1,427	1,762	1,866	2,424	2,559
Calvin College, Grand Rapids	3,919	3,807	3,926	3,973	4,012
Calvin Theological Seminary, Grand Rapids	185	210	225	238	235
Center for Creative Studies	1,103	1,113	974	1,141	1,166
Central Bible College	--	--	54	73	n.a.
Center for Humanistic Studies, Detroit	55	69	63	66	66
Chrysler Institute of Technology	--	--	184	424	657
Cleary College, Ypsilanti, Howell	416	1,006	862	970	881
Concordia Lutheran Junior College, Ann Arbor	550	540	509	487	433
Cranbrook Academy of Art, Bloomfield Hills	150	140	140	147	131
Davenport College of Business, Grand Rapids	4,265	4,511	4,684	4,219	4,361
D'etre University, Grosse Pointe	--	--	52	70	114
Detroit Baptist Theology Seminary	--	--	35	41	42
Detroit College of Business, Dearborn	2,789	2,965	3,425	3,318	3,216
Detroit College of Law, Detroit	874	877	983	809	770
Ecumenical Theology Seminary, Southfield	n.a.	n.a.	n.a.	70	85
General Motors Institute, Flint	2,389	2,433	2,494	2,998	3,442
Grace Bible College, Grand Rapids	241	170	145	141	126
Grand Rapids Baptist, Grand Rapids	1,132	1,077	960	951	910
Great Lakes Bible College, Lansing	178	176	152	141	155
Hillsdale College, Hillsdale	1,043	1,044	984	1,032	1,006

TABLE IV-13. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1981-1985 (cont.)

Institution and city	1981	1982	1983	1984	1985
Independent institutions (cont.)					
Hope College, Holland	2,458	2,530	2,379	2,550	2,522
Jordon College, Cedar Springs	654	1,025	1,464	1,703	1,931
Kalamazoo College, Kalamazoo	1,367	1,234	1,126	1,106	1,115
Kendall School of Design, Grand Rapids	505	577	646	687	680
Lawrence Institute of Technology, Southfield	5,703	5,868	5,332	6,121	6,271
Lewis College of Business, Detroit	609	515	647	377	269
Madonna College, Livonia	3,385	3,409	3,742	3,879	3,974
Marygrove College, Detroit	1,149	1,189	1,159	1,182	1,232
Mercy College of Detroit, Detroit	2,119	2,106	2,264	2,465	2,402
Michigan Christian Junior College, Rochester	319	343	362	360	329
Midrasha College of Jewish Studies, Southfield	n.a.	n.a.	n.a.	n.a.	25
Muskegon Business College, Muskegon	1,175	1,253	1,450	1,464	1,370
Nazareth College, Nazareth	528	571	569	820	856
Northwood Institute, Midland	1,929	1,846	1,862	1,836	1,848
Olivet College, Olivet	637	561	606	679	680
Reformed Bible College, Grand Rapids	206	222	200	219	187
Sacred Heart Seminary, Detroit	172	198	195	204	318
Saginaw Business Institute, Saginaw[a]	--	--	--	542	681
St. Cyril and Methodium Seminary, Orchard Lake	73	93	35	53	62
St. John's Seminary	211	190	108	200	124
St. Mary's College, Orchard Lake	216	195	220	241	221
Siena Heights College, Adrian	1,478	1,404	1,208	1,480	1,487
Spring Arbor College, Spring Arbor	1,011	975	1,025	1,046	1,072
Suomi College, Hancock	510	558	592	659	697
Thomas Cooley Law School, Lansing	1,045	1,115	1,159	1,128	1,028
University of Detroit, Detroit	6,186	5,967	5,512	5,828	5,866

TABLE IV-13. OPENING FALL ENROLLMENT (HEADCOUNT) IN INSTITUTIONS OF HIGHER EDUCATION IN MICHIGAN, BY INSTITUTION: 1981-1985 (cont.)

Institution and city	1981	1982	1983	1984	1985
Independent institutions (cont.)					
Walsh College of Accountancy and Business Administration, Troy	1,707	1,388	1,719	2,025	2,101
Western Theological Seminary, Holland	130	122	135	177	180
William Tyndal College, Detroit	--	--	287	302	326
Yeshivath Beth Yehudah, Oak Park	64	231	n.a.	62	n.a.
TOTAL	67,509	67,673	64,206	72,798	73,679

SOURCE: Michigan Department of Education, special release.

NOTE: Enrollment statistics are based on actual headcounts of students enrolled in degree programs, unclassified students, and graduate students.

n.a.: not available

a: name changed to Great Lakes Junior College of Business.

TABLE IV-14. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN DEGREE-GRANTING INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1985-1986 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Public Colleges and Universities					
Central Michigan Univ. Mt. Pleasant	$1,460	$2,350	$ 250[a]	$ 730[b]	$4,790
Eastern Michigan Univ. Ypsilanti	1,454	2,618	800	383	5,255
Ferris State College Big Rapids	1,566	2,454	1,080	375	5,475
Grand Valley State College Allendale	1,560	2,720	750	400	5,430
Lake Superior State College Sault Ste. Marie	1,527	2,462	1,100	--	5,269
Michigan State University East Lansing	2,190	2,505	270	765	5,730
Michigan Technological Univ. Houghton	1,854	2,540	900	350	5,644
Northern Michigan University Marquette	1,572	2,451	800	385-700	5,200-5,523
Oakland University Rochester	1,672	2,685	750	350	5,457
Saginaw Valley State College University Center	1,689	2,530	832	420	5,471
University of Michigan Ann Arbor	2,340	3,410	1,190	160	7,100
Univ. of Michigan/Dearborn Dearborn	1,744	1,100	896	750	4,490
University of Michigan/Flint Flint	1,472	1,600	760	690	4,522
Wayne State University Detroit	1,648	1,900[c]	852	696	5,096
Western Michigan University Kalamazoo	1,460	2,588	1,070	100	5,218
Nonpublic colleges and universities					
Adrian College, Adrian	6,126	2,094	1,150	--	9,370
Albion College, Albion	6,784	3,052	1,000	(d)	10,836
Alma College, Alma	6,910	2,796	700	300	10,706
Andrews University Berrien Springs	6,030	3,012	910	375	10,327
Aquinas College, Grand Rapids	5,600	2,786	800	383	9,569
Calvin College Grand Rapids	4,980	2,220	725	300	8,225
Center for Creative Studies College of Art and Design Detroit	5,536	1,900	800	695	8,895

TABLE IV-14. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN DEGREE-GRANTING INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1985-1986 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Nonpublic colleges and universities (cont.)					
Cleary College, Ypsilanti, Howell	$3,375	$1,700	$ 775	$ 675	$6,525
Concordia College Ann Arbor	4,118	2,698	1,160	116	8,092
Cranbrook Academy of Art Bloomfield Hills	6,100	2,750	1,225	525	10,600
Davenport College of Bus. Grand Rapids	5,022	2,325	960	360	8,667
D'etre Institute of Arts & Sciences, Grosse Pointe	3,900	1,900	800	695	7,295
Detroit College of Business Dearborn[e]	3,720	1,900	800	695	7,115
Detroit College of Law Detroit					
Day	5,700	9,000[f]	2,450	1,900	19,050
Evening	4,275	9,000[f]	2,450	1,900	17,625
General Motors Institute Flint	5,200	2,100	n.a.[g]	n.a.[g]	7,300
Grace Bible College Grand Rapids	2,175	2,150	750	375	5,450
Grand Rapids Baptist College Grand Rapids	3,730	2,628	892	400	7,650
Great Lakes Bible College, Lansing	2,325	2,563	975	300	6,163
Hillsdale College Hillsdale	6,300	2,900	800	350	10,350
Hope College, Holland	6,280	2,770	1,100	(d)	10,050
Jordan Coll., Cedar Springs	3,000	1,800	775	375	5,950
Kalamazoo College Kalamazoo	7,758	2,883	720	105	11,466
Kendall School of Design Grand Rapids	4,395	2,052	1,030	731	8,208
Lawrence Inst. of Technology Southfield	2,604	1,600	1,200	1,000	6,404
Madonna College, Livonia	2,510	2,320	800	385	6,015
Marygrove College Detroit	4,207	2,230	800	695	7,932
Mercy College of Detroit Detroit	3,698	1,650	840	785	7,243
Michigan Christian Jr. Coll. Rochester	2,876	2,252	800	383	6,311
Nazareth College Nazareth	5,430	2,530	1,050	400	9,410
Northwood Institute Midland	4,950	2,676	800	385	8,811
Olivet College, Olivet	5,040	2,390	750	350	8,490

TABLE IV-14. ESTIMATE OF MICHIGAN RESIDENT STUDENT EXPENSES AT MICHIGAN DEGREE-GRANTING INSTITUTIONS OF HIGHER EDUCATION: EXPENSES FOR 1985-1986 ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) (cont.)

Institution	Tuition and fees	Room and board	Books and personal	Travel	Total
Nonpublic colleges and universities (cont.)					
Reformed Bible College Detroit	3,370	2,300	755	450	6,855
Sacred Heart Seminary Detroit	2,600	1,750	775	375	5,500
St. Mary's College Orchard Lake	3,100	2,450	775	400	6,725
Siena Heights College, Adrian	4,380	2,600	800	385	8,165
Spring Arbor College Spring Arbor	5,290	2,208	800	385	8,683
Thomas Cooley Law School Lansing	5,265	2,700	1,163	1,012	10,140
University of Detroit Detroit	5,920	2,630	1,096	310	9,956
Walsh College/Acctng. and Business Admin. Detroit	2,505	1,700	775	675	5,655
William Tyndale College Detroit	2,726	2,420	800	385	6,331

Room and Board is based upon length of program. Most institutions with dormitory facilities do not provide meals. Students are charged for room only and must purchase meals at the cafeteria. For these institutions the base figure of $1,700 was used to determine room and board.

Travel allowance is based upon dormitory facilities and length of program.

Reported to S.F.A.S. - Department of Education as of 15 March reporting date.

SOURCE: Michigan Department of Education, special release.

a. Books only.
b. Travel and personal.
c. At home.
d. Included with books and personal expenses.
e. Same expenses apply at Detroit College of Business, Flint campus.
f. This is a non-college affiliated expense.
g. Varies because of different co-op experiences across the U.S.

TABLE IV-16. EDUCATIONAL AND GENERAL EXPENDITURES OF MICHIGAN PUBLIC FOUR-YEAR INSTITUTIONS OF HIGHER EDUCATION: FISCAL YEARS 1983-1985

(In thousands of dollars)

Institution		Instruction	Research	Public service	Plant operation and maintenance	Total[a]
Central Michigan University	1983	35,093	325	1,980	5,250	89,447
	1984	37,283	329	2,239	5,526	95,947
	1985	38,993	366	2,427	7,888	101,042
Eastern Michigan University	1983	29,218	553	4,494	7,267	80,741
	1984	31,345	595	4,570	8,164	90,399
	1985	34,458	669	4,548	8,304	99,051
Ferris State College	1983	22,294	91	197	4,576	62,879
	1984	24,506	54	243	4,810	68,750
	1985	26,012	266	365	4,642	74,235
Grand Valley State College	1983	9,862	104	2,184	3,118	29,786
	1984	10,505	104	2,704	3,720	34,238
	1985	11,603	134	3,916	3,868	38,377
Lake Superior State College	1983	3,924	0	129	1,638	13,745
	1984	4,606	0	218	1,920	16,479
	1985	5,127	5	140	2,012	17,325
Michigan State University	1983	136,493	60,685	38,625	24,606	401,521
	1984	149,823	65,660	41,147	26,468	437,775
	1985	158,977	73,311	46,122	28,755	473,152
Michigan Technological Univ.	1983	17,930	7,308	715	4,744	59,191
	1984	19,126	8,625	769	5,823	69,096
	1985	19,769	8,427	718	5,250	64,731
Northern Michigan University	1983	14,903	79	2,468	5,588	48,042
	1984	15,870	152	2,516	5,867	52,146
	1985	17,353	176	3,712	5,718	55,036
Oakland University	1983	18,190	2,346	881	5,075	54,724
	1984	19,960	2,806	886	5,269	60,562
	1985	21,596	3,109	1,486	5,491	64,595
Saginaw Valley College	1983	5,572	92	189	1,214	15,614
	1984	6,334	109	290	1,532	17,656
	1985	6,916	160	244	1,478	19,227
University of Michigan[b]	1983	179,940	103,185	8,978	52,136	532,096
	1984	198,281	111,920	7,332	63,806	593,441
	1985	212,515	124,342	8,267	67,451	639,469
Wayne State University	1983	78,258	18,006	8,371	23,417	197,576
	1984	78,593	19,310	12,007	32,503	213,640
	1985	81,461	20,054	14,245	34,369	223,223
Western Michigan University	1983	40,614	847	3,592	9,107	111,318
	1984	42,281	1,147	3,622	9,382	118,587
	1985	44,549	1,365	3,855	10,271	126,009
TOTAL	1983	592,286	193,621	72,803	147,736	1,695,976
	1984	566,514	210,811	78,603	174,790	1,868,716
	1985	679,329	232,384	90,045	185,497	1,995,472

SOURCE: Michigan Department of Education, special release.

a. Also includes academic support, student services, institutional support, scholarships and fellowships, and auxiliary expenses.
b. Ann Arbor, Dearborn and Flint.

V. THE LABOR MARKET

The civilian work force is the sum of the unemployed, those workers involved in labor disputes, and total employment (wage and salary workers, farm workers, self-employed unpaid family workers, and domestics). The unemployment rate is the number of unemployed divided by the total labor force and is usually stated as a percentage. The work force includes all persons aged 16 years and older who are classified as employed or unemployed. Those not in the labor force are without a job and are not looking for work for reasons of health, incarceration, college status, retirement, youth, voluntary idleness, involuntary idleness but not looking for a job, and so forth.

Civilian work force, employment, and unemployment figures are estimated from the Current Population Survey (CPS), a sample of U.S. households, not a complete count. The CPS, selected so as to be representative of the total population, is conducted each month by the Bureau of the Census. The results are turned over to the Bureau of Labor Statistics for analysis and release. For the ten largest states, of which Michigan is one, monthly labor force employment and unemployment figures come directly from the CPS. For the District of Columbia and the remaining 40 states, other procedures are used.

Sampling error is the error associated with using a sample of households rather than a complete census. The relative error varies inversely with the size of the statistics being estimated and with the size of the sample. Tables of sampling errors for the various statistics shown in Table V-1 through V-14 may be consulted in BLS publications dealing with geographic profiles of employment and unemployment, published annually.

Job data are estimated from samples of employers taken monthly by the Michigan Employment Security Commission (MESC) and similar agencies in other states and the District of Columbia. MESC estimates are made each month by industry group for the state, the major labor market areas (these coincide with the Standard Metropolitan Statistical Areas (SMSA), for the most part), for small labor markets, and for the Upper Peninsula. There is no measure of the sampling error in job data. Each year the job figures are revised on the basis of the March benchmark. The MESC carefully compares the employer sample with a tabulation of jobs reported by all employers covered under the regular state unemployment insurance system in order to make adjustments in its procedures.

The chapters dealing with retail trade, wholesale trade, and services provide greater detail on jobs for those sectors; however, their figures are developed differently and pertain to the mid-March pay period only. They are helpful guides as to which specific kinds of retailing, wholesaling, and services provide the most and fewest jobs. Also, the industry chapters in this Abstract have tabulations of licenses issued in various professions. In using those figures, the reader should bear in mind that, for one reason or another, not all license holders are practicing those professions.

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TABLE V-1. CIVILIAN LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN MICHIGAN AND THE UNITED STATES: 1950-1985

(Labor force, employment, and unemployment in thousands)

	Michigan				United States			
	Labor-force	Employ-ment	Unemployment		Labor force	Employ-ment	Unemployment	
Year			Number	Rate			Number	Rate
			Original Series[a]					
1950	2,685	2,577	108	4.0	62,208	58,918	3,288	5.3
1951	2,773	2,661	112	4.0	62,017	59,961	2,055	3.3
1952	2,790	2,675	115	4.1	62,138	60,250	1,883	3.0
1953	2,941	2,862	79	2.7	63,015	61,179	1,834	2.9
1954	2,928	2,720	208	7.1	63,643	60,109	3,532	5.5
1955	2,916	2,808	108	3.7	65,023	62,170	2,852	4.4
1956	2,934	2,744	190	6.5	66,552	63,799	2,750	4.1
			Current series					
1956	3,141	2,923	218	6.9	66,552	63,799	2,750	4.1
1957	3,076	2,874	202	6.6	66,929	64,071	2,859	4.3
1958	3,045	2,627	418	13.7	67,639	63,036	4,602	6.8
1959	2,968	2,718	250	8.4	68,369	64,630	3,740	5.5
1960	2,959	2,760	199	6.7	69,628	65,778	3,852	5.5
1961	2,954	2,655	299	10.1	70,459	65,746	4,714	6.7
1962	2,939	2,734	205	7.0	70,614	66,702	3,911	5.5
1963	2,967	2,801	166	5.6	71,833	67,762	4,070	5.7
1964	3,071	2,923	148	4.8	73,091	69,305	3,786	5.2
1965	3,211	3,086	125	3.9	74,455	71,088	3,366	4.5
1966	3,369	3,252	117	3.5	75,770	72,895	2,875	3.8
1967	3,450	3,296	154	4.5	77,347	74,372	2,975	3.8
1968	3,501	3,350	151	4.3	78,737	75,920	2,817	3.6
1969	3,594	3,449	145	4.0	80,734	77,902	2,832	3.5
1970	3,591	3,351	241	6.7	82,771	78,678	4,093	4.9
1971	3,624	3,348	276	7.6	84,382	79,367	5,016	5.9
1972	3,695	3,438	258	7.0	87,034	82,153	4,882	5.6
1973	3,803	3,579	223	5.9	89,429	85,064	4,365	4.9
1974	3,880	3,592	288	7.4	91,949	86,794	5,156	5.6
1975	3,892	3,406	486	12.5	93,775	85,846	7,929	8.5
1976	3,990	3,618	373	9.4	96,158	88,752	7,406	7.7
1977	4,114	3,777	337	8.2	99,009	92,017	6,991	7.1
1978	4,196	3,908	289	6.9	102,251	96,048	6,202	6.1
1979	4,314	3,979	335	7.8	104,962	98,824	6,137	5.8
1980	4,293	3,759	534	12.4	106,940	99,303	7,637	7.1
1981	4,306	3,777	529	12.3	108,670	100,397	8,273	7.6
1982	4,277	3,616	661	15.5	110,204	99,526	10,678	9.7
1983	4,287	3,679	608	14.2	111,550	100,834	10,717	9.6
1984	4,346	3,860	486	11.2	113,544	105,005	8,539	7.5
1985	4,352	3,920	433	9.9	115,461	107,150	8,312	7.2

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), January 1986, Table A-1.

[a] For Michigan there is a break in the comparability of the data in 1956. For the U.S. there is not.

TABLE IV-15. EDUCATIONAL AND GENERAL REVENUES OF MICHIGAN PUBLIC FOUR-YEAR INSTITUTIONS OF HIGHER EDUCATION: FISCAL YEARS 1983-1985

(In thousands of dollars)

Institution		Tuition and fees	State appropriations	Sales and service		Other	Total
				Educational activities	Auxiliary enterprises		
Central Michigan University	1983	28,586	29,359	2,128	19,559	7,555	87,187
	1984	31,992	32,928	2,320	19,428	9,427	96,096
	1985	31,516	36,435	2,260	21,261	9,577	101,049
Eastern Michigan University	1983	20,787	35,795	892	14,118	11,152	82,744
	1984	23,538	38,781	1,159	14,828	12,386	90,692
	1985	24,084	43,132	1,682	15,979	13,840	98,717
Ferris State College	1983	15,974	21,067	1,495	17,052	7,337	62,925
	1984	17,504	24,400	2,086	18,118	7,799	69,906
	1985	17,089	26,986	2,686	17,817	8,723	73,301
Grand Valley State College	1983	6,714	13,221	791	3,035	6,203	29,964
	1984	8,263	14,407	948	3,965	7,055	34,638
	1985	9,159	16,283	523	4,407	8,285	38,657
Lake Superior State College	1983	3,054	5,705	11	3,657	2,128	14,555
	1984	37,696	6,402	7	4,266	2,403	16,847
	1985	3,665	7,061	6	4,572	2,609	17,913
Michigan State University	1983	77,511	150,472	17,611	77,928	97,663	421,185
	1984	83,273	166,152	19,390	83,654	101,761	454,230
	1985	86,025	181,759	22,107	89,202	113,040	492,133
Michigan Technical University	1983	12,883	17,558	761	10,751	14,060	56,013
	1984	13,560	25,847	1,004	10,965	14,752	66,127
	1985	13,188	25,440	903	11,548	12,944	64,023
Northern Michigan University	1983	10,013	20,392	2,363	8,658	7,089	48,515
	1984	10,488	23,704	1,709	8,825	7,062	51,789
	1985	9,955	27,289	2,051	8,208	7,314	54,718
Oakland University	1983	14,013	19,463	1,610	12,627	7,646	55,449
	1984	15,473	21,833	1,555	13,127	8,957	60,945
	1985	15,980	24,283	2,104	13,335	9,623	65,325

TABLE IV-15. EDUCATIONAL AND GENERAL REVENUES OF MICHIGAN PUBLIC FOUR-YEAR INSTITUTIONS OF HIGHER EDUCATION: FISCAL YEARS 1983-1985 (cont.)

(In thousands of dollars)

Institution		Tuition and fees	State appropriations	Sales and service: Educational activities	Sales and service: Auxiliary enterprises	Other	Total
Saginaw Valley College	1983	4,454	7,192	228	1,904	1,710	15,488
	1984	5,071	8,037	399	2,086	2,363	17,957
	1985	5,237	8,754	310	2,254	2,583	19,138
University of Michigan[a]	1983	133,753	160,765	23,934	57,322	165,683	541,457
	1984	148,446	181,085	25,704	62,256	188,308	605,798
	1985	156,537	200,750	29,292	70,294	202,081	658,954
Wayne State University	1983	46,458	97,708	5,333	13,148	41,219	203,866
	1984	45,412	112,047	8,449	10,580	45,378	221,866
	1985	45,032	124,659	7,622	7,544	53,809	238,666
Western Michigan University	1983	26,921	44,963	3,769	22,563	11,228	109,444
	1984	28,500	50,765	4,031	23,930	11,861	119,087
	1985	28,082	56,208	4,764	24,504	12,786	126,344
TOTAL	1983	401,211	623,660	60,926	262,322	380,673	1,728,792
	1984	435,290	706,386	68,760	276,028	419,514	1,905,978
	1985	445,549	779,039	76,310	290,925	457,115	2,048,938

SOURCE: Michigan Department of Education, special release.

[a] Figures include Ann Arbor, Dearborn, and Flint operations.

TABLE V-2. CIVILIAN LABOR FORCE, LABOR FORCE PARTICIPATION RATE, AND CIVILIAN EMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, IN MICHIGAN, AND THE UNITED STATES, FOR WHITES AND BLACKS, SEX, ANNUAL AVERAGES OF MONTHLY ESTIMATES FROM THE CURRENT POPULATION SURVEY: 1981-1985

Race and sex	1981	1982	1983	1984	1985
			Detroit SMSA		
Civilian labor force (000)					
White Men	991	965	935	937	976
White Women	678	684	697	707	722
Black Men	165	176	168	178	163
Black Women	148	147	155	159	164
Participation rate					
White Men	81.0	79.0	77.6	77.0	79.0
White Women	50.3	52.0	53.0	53.4	54.8
Black Men	66.8	66.7	65.4	66.8	63.3
Black Women	46.8	47.6	49.5	48.5	49.7
Civilian employment (000)					
White Men	831	840	815	871	917
White Women	536	600	618	648	670
Black Men	115	113	117	127	117
Black Women	108	102	107	116	116
			Michigan		
Civilian labor force (000)					
White Men	2,259	2,195	2,170	2,157	2,178
White Women	1,565	1,589	1,619	1,661	1,636
Black Men	231	236	240	262	238
Black Women	197	203	215	229	242
Participation rate					
White Men	78.7	77.2	76.9	77.3	76.9
White Women	51.0	52.2	53.3	54.3	54.0
Black Men	68.5	66.3	66.4	69.6	64.8
Black Women	47.3	48.3	50.2	51.0	52.0
Civilian employment (000)					
White Men	2,021	1,897	1,884	1,968	2,016
White Women	1,397	1,382	1,443	1,503	1,506
Black Men	169	152	168	190	172
Black Women	144	141	154	169	174
			United States		
Civilian labor force (000)					
White Men	54,895	55,133	55,480	56,062	56,472
White Women	40,157	41,010	41,541	42,431	43,455
Black Men	5,685	5,804	5,966	6,126	6,220
Black Women	5,401	5,527	5,681	5,907	6,144
Participation rate					
White Men	77.9	77.4	77.1	77.1	77.0
White Women	51.9	52.4	52.7	53.3	54.1
Black Men	70.0	70.1	70.6	70.8	70.8
Black Women	53.5	53.7	54.2	55.2	56.5
Civilian employment (000)					
White Men	51,315	50,287	50,621	52,462	53,046
White Women	37,394	37,615	38,272	39,659	40,690
Black Men	4,794	4,637	4,753	5,124	5,270
Black Women	4,561	4,552	4,622	4,995	5,231

SOURCE: Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1985*, (Washington, D.C.: 1986), Bulletin 2166, Table 1, 12, and 23; and similar documents for previous years.

TABLE V-3. LEVEL AND RATE OF CIVILIAN UNEMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, IN MICHIGAN, AND THE UNITED STATES, FOR WHITES AND BLACKS, SEX, ANNUAL AVERAGE OF MONTHLY ESTIMATES FROM THE CURRENT POPULATION SURVEY: 1981-1985

Race and sex	1981	1982	1983	1984	1985
		Detroit SMSA			
Total unemployed (000)					
White men	94	125	119	66	60
White women	77	89	79	59	52
Black men	43	63	59	51	47
Black women	37	45	41	44	48
Unemployment rate					
White men	9.5	12.9	12.8	7.0	6.1
White women	11.4	12.9	11.3	8.3	7.1
Black men	26.3	36.0	30.4	28.8	28.6
Black women	24.9	30.8	31.2	27.4	29.2
		Michigan			
Total unemployed (000)					
White men	238	298	286	190	162
White women	168	207	177	158	130
Black men	62	84	72	72	66
Black women	52	82	61	60	68
Unemployment rate					
White men	10.5	13.6	13.2	8.8	7.4
White women	10.7	13.0	10.9	9.5	7.9
Black men	26.9	35.6	30.0	27.5	27.6
Black women	26.6	30.5	28.5	26.2	28.1
		United States			
Total unemployed (000)					
White men	3,580	4,846	4,859	3,600	3,426
White women	2,762	3,395	3,270	2,772	2,765
Black men	891	1,167	1,213	1,003	951
Black women	840	975	1,059	911	913
Unemployment rate					
White men	6.5	8.8	8.8	6.4	6.1
White women	6.9	8.3	7.9	6.5	6.4
Black men	15.7	20.1	20.3	16.4	15.3
Black women	15.6	17.6	18.6	15.4	14.9

SOURCE: Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1985*, (Washington, D.C.: 1986), Bulletin 2166, Table 1, 12, and 23; and similar documents for previous years.

TABLE V-4. FULL AND PART-TIME STATUS OF THE CIVILIAN LABOR FORCE, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN MICHIGAN AND THE UNITED STATES: 1981-1985

(In thousands)

	1981	1982	1983	1984	1985
			Michigan		
Full-time labor force					
Employed:					
Full-time schedules	2,987	2,778	2,840	3,003	3,106
Part-time-econ. reason	211	273	300	277	221
Unemployed (looking for full-time work):					
Number	440	556	513	399	348
Pct. full-time force	12.1	15.4	14.1	10.8	9.5
TOTAL	3,638	3,607	3,654	3,679	3,674
Part-time labor force					
Employed on voluntary part-time	576	564	553	591	594
Unemployed (looking for part-time work):					
Number	88	105	97	89	85
Pct. part-time force	13.3	15.7	14.9	13.1	12.6
TOTAL	664	669	650	680	679
			United States		
Full-time labor force					
Employed:					
Full-time schedules	81,358	79,118	80,395	84,831	86,795
Part-time, econ. reason	4,768	6,169	6,266	5,743	5,590
Unemployed (looking for full-time work):					
Number	6,795	9,006	9,075	7,057	6,793
Pct. full-time force	7.3	9.6	9.5	7.2	6.8
TOTAL	92,921	94,293	95,736	97,632	99,178
Part-time labor force					
Employed on voluntary part-time	14,271	14,239	14,172	14,431	14,764
Unemployed (looking for part-time work):					
Number	1,477	1,672	1,642	1,481	1,519
Pct. part-time force	9.4	10.5	10.4	9.3	9.3
TOTAL	15,749	15,912	15,814	15,912	16,283

SOURCE: Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1985 (Washington, D.C., 1984), Table 13; similar documents for previous years; special release; Employment and Earnings, January 1986, p. 161; and similar documents for previous years.

TABLE V-5. OCCUPATIONAL DISTRIBUTION OF EMPLOYMENT, DATA BASED ON A SAMPLE OF HOUSEHOLDS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, IN MICHIGAN, AND IN THE UNITED STATES, BY SEX: 1984 AND 1985

(percentages)

	Detroit		Michigan		United States	
	1984	1985	1984	1985	1984	1985
Executive, administrative, and managerial						
Men	12.3	12.0	11.7	10.8	13.0	13.1
Women	8.1	8.7	7.5	7.7	8.5	9.2
Total	10.5	10.6	9.8	9.5	11.0	11.4
Professional specialty						
Men	11.9	12.5	10.2	10.5	11.6	11.6
Women	14.2	14.4	13.1	12.8	14.0	14.2
Total	12.9	13.3	11.5	11.5	12.7	12.7
Technicians and related support						
Men	3.8	3.4	3.1	2.7	2.8	2.9
Women	2.7	3.2	3.0	3.1	3.3	3.3
Total	3.3	3.3	3.0	2.9	3.0	3.0
Sales						
Men	10.6	10.3	9.8	10.5	11.1	11.0
Women	14.7	14.1	13.4	13.0	13.1	12.9
Total	12.4	11.9	11.4	11.6	12.0	11.8
Administrative support, including clerical						
Men	6.4	5.3	5.2	4.9	5.7	5.7
Women	31.4	30.9	28.8	29.1	29.1	29.4
Total	17.3	16.3	15.5	15.4	15.9	16.2
Service						
Men	10.9	10.9	9.6	10.0	9.4	9.5
Women	19.2	18.7	20.8	20.7	18.7	18.5
Total	14.5	14.3	14.5	14.6	13.5	13.5
Precision production, crafts, and repair						
Men	18.3	19.5	20.2	20.2	20.2	20.4
Women	2.1	1.4	2.4	2.2	2.4	2.4
Total	11.3	11.6	15.0	12.4	12.4	12.4
Machine operators, assemblers, and inspectors						
Men	13.4	12.7	14.5	14.3	8.0	7.8
Women	4.9	5.7	7.2	7.5	7.1	6.7
Total	9.7	9.7	11.3	11.3	7.6	7.3
Transportation and material moving						
Men	5.6	5.9	6.7	6.3	6.9	6.9
Women	.8	.5	.9	.7	.8	.8
Total	3.5	3.6	4.2	3.9	4.3	4.2
Handlers, equipment cleaners, helpers, and laborers						
Men	5.0	5.8	5.5	6.2	6.2	6.2
Women	1.0	1.5	1.8	1.8	1.6	1.6
Total	3.3	4.0	3.9	4.3	4.2	4.1
Farming, forestry, and fishing						
Men	1.6	n.a.	3.4	3.5	5.1	4.9
Women	.8	n.a.	1.1	1.3	1.2	1.2
Total	1.2	n.a.	2.4	2.6	3.4	3.2
All occupations						
Men	100.0	100.0	100.0	100.0	100.0	100.0
Women	100.0	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0	100.0

SOURCE: Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1985 (Washington, D.C.: 1986), Tables 15 and 25; and Employment and earnings, January 1986, p. 174.

TABLE V-6. UNEMPLOYED PERSONS, BY DURATION OF UNEMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE IN MICHIGAN AND THE UNITED STATES: 1982-1985

	Michigan				United States			
	1982	1983	1984	1985	1982	1983	1984	1985
Percentage distribution by duration of unemployment:								
Less than 15 weeks	58.6	52.6	62.9	65.2	67.4	60.7	67.9	72.3
15-26 weeks	16.1	14.9	11.5	12.5	16.0	15.4	12.9	12.3
27 weeks or longer	25.3	32.5	25.6	22.3	16.6	23.9	19.1	15.4
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Thousands of persons	661	610	488	433	10,678	10,717	8,539	8,312

SOURCE: Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1985* (Washington, D.C.: 1986), Table 21; and *Employment and Earnings*, January 1986, p. 167.

TABLE V-7. UNEMPLOYED PERSONS, BY REASON FOR UNEMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE IN MICHIGAN AND THE UNITED STATES: 1982-1985

	Michigan				United States			
	1982	1983	1984	1985	1982	1983	1984	1985
Job losers:								
On lay off	33.2	30.0	19.4	18.0	20.1	16.6	13.7	13.9
Others	26.6	26.5	27.5	24.0	38.6	41.8	38.1	35.9
TOTAL	59.8	56.5	46.9	42.0	58.7	58.4	51.8	49.8
Job leavers	4.8	6.5	6.8	7.4	7.9	7.7	9.6	10.6
Reentrants	22.4	23.8	30.2	34.2	22.3	22.5	25.6	27.1
New entrants	13.0	10.2	16.1	16.4	11.1	11.3	13.0	12.5
GRAND TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Thousands of persons	661	610	488	433	10,678	10,717	8,539	8,312

SOURCE: Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1985* (Washington, D.C.: 1986), Table 22; and *Employment and Earnings*, January 1986, p. 166.

TABLE V-8. MICHIGAN AND U.S. CIVILIAN LABOR FORCE, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1975-1985

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	3,902	3,905	3,934	3,880	3,835	3,916	3,894	3,914	3,859	3,853	3,929	3,882
1976	3,859	3,957	3,955	3,940	3,960	4,011	4,037	4,000	4,013	4,013	4,042	4,012
1977	4,017	4,086	4,093	4,057	4,040	4,160	4,141	4,159	4,122	4,171	4,180	4,136
1978	4,172	4,166	4,131	4,160	4,160	4,245	4,232	4,205	4,100	4,186	4,233	4,276
1979	4,251	4,281	4,282	4,246	4,320	4,375	4,395	4,310	4,316	4,326	4,351	4,319
1980	4,258	4,277	4,227	4,222	4,309	4,396	4,352	4,343	4,290	4,298	4,285	4,265
1981	4,214	4,199	4,213	4,280	4,343	4,410	4,410	4,389	4,301	4,346	4,315	4,259
1982	4,219	4,230	4,240	4,204	4,307	4,321	4,386	4,357	4,283	4,252	4,233	4,295
1983	4,257	4,234	4,222	4,283	4,370	4,412	4,393	4,365	4,293	4,232	4,171	4,212
1984	4,146	4,250	4,305	4,344	4,414	4,473	4,507	4,449	4,362	4,372	4,371	4,318
1985	4,309	4,329	4,399	4,350	4,363	4,399	4,393	4,413	4,345	4,352	4,389	4,370
						United States						
1975	92,200	91,972	92,464	92,459	92,880	95,174	96,053	95,525	94,023	94,510	94,041	93,995
1976	93,938	94,075	94,400	94,702	94,925	97,490	98,605	98,133	96,430	96,999	97,116	97,004
1977	96,197	96,837	97,277	97,352	97,755	100,743	100,960	100,744	99,367	100,144	100,522	100,213
1978	99,664	99,641	100,166	100,610	101,092	104,010	104,512	103,946	102,740	103,474	103,586	103,565
1979	102,802	103,185	103,606	103,198	103,476	106,210	107,096	106,489	105,510	106,084	105,871	106,040
1980	105,344	105,412	105,510	105,592	106,233	108,311	109,268	108,404	106,989	107,673	107,532	107,009
1981	106,885	107,015	107,634	107,906	108,586	109,904	110,742	110,099	108,273	109,244	109,179	108,574
1982	108,014	108,324	108,761	108,814	109,914	111,569	112,526	111,887	110,546	110,767	110,855	110,477
1983	109,779	109,647	109,873	109,875	110,308	113,383	113,980	113,578	112,197	112,042	112,147	111,795
1984	111,025	111,368	111,828	112,152	113,251	115,393	116,198	115,076	113,843	114,250	114,115	114,028
1985	113,475	113,592	114,394	114,325	114,890	116,572	117,[illegible]36	116,679	115,850	116,346	116,097	115,780

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.
NOTE: Figures represent the sum of civilian employment and unemployment and are not seasonally adjusted.

TABLE V-9. MICHIGAN AND U.S. CIVILIAN EMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1975-1985

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	3,367	3,337	3,347	3,350	3,363	3,359	3,384	3,456	3,430	3,466	3,546	3,463
1976	3,463	3,533	3,535	3,547	3,592	3,612	3,651	3,700	3,678	3,712	3,704	3,677
1977	3,660	3,687	3,695	3,761	3,743	3,816	3,776	3,775	3,815	3,901	3,857	3,845
1978	3,833	3,868	3,835	3,886	3,887	3,945	3,924	3,867	3,945	3,956	3,954	3,988
1979	3,910	3,930	3,942	3,880	4,009	4,059	4,057	3,986	4,007	4,013	4,007	3,952
1980	3,818	3,796	3,759	3,696	3,701	3,775	3,735	3,795	3,775	3,771	3,748	3,745
1981	3,631	3,598	3,659	3,759	3,849	3,923	3,882	3,906	3,840	3,842	3,798	3,645
1982	3,543	3,548	3,517	3,552	3,693	3,703	3,741	3,723	3,662	3,619	3,539	3,554
1983	3,533	3,536	3,503	3,618	3,730	3,765	3,820	3,780	3,766	3,704	3,683	3,711
1984	3,616	3,714	3,765	3,864	3,915	3,968	3,998	3,990	3,932	3,930	3,904	3,861
1985	3,790	3,388	3,941	3,902	3,934	3,950	3,918	3,986	3,920	3,936	3,998	4,040
						United States						
1975	83,928	83,573	84,018	84,551	85,173	86,507	87,742	87,726	86,399	87,160	86,700	86,689
1976	85,652	85,932	86,769	87,786	88,510	89,727	90,908	90,690	89,281	90,041	89,892	89,850
1977	88,217	88,601	89,597	90,660	91,475	93,154	93,879	93,846	92,788	93,779	94,027	94,183
1978	92,616	92,755	93,545	94,783	95,486	97,530	97,917	97,855	96,790	97,851	97,788	97,669
1979	96,201	96,536	97,282	97,478	98,057	99,800	100,814	100,174	99,533	100,120	99,907	100,013
1980	98,111	98,235	98,527	98,569	98,732	99,830	100,665	100,202	99,334	99,999	99,850	99,579
1981	98,139	98,401	99,364	100,345	100,855	101,419	102,612	102,152	100,389	101,028	100,502	99,562
1982	97,831	97,946	98,471	98,858	99,957	100,683	101,490	101,177	99,851	99,825	99,379	98,849
1983	97,262	97,265	97,994	98,840	99,543	101,813	103,273	103,167	102,366	102,659	103,018	102,803
1984	101,270	101,961	102,770	103,628	105,096	106,812	107,484	106,694	105,792	106,262	106,246	106,049
1985	104,344	104,690	105,768	106,175	106,880	107,819	108,854	108,628	107,867	108,428	108,282	108,063

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Employed persons comprise two groups. The first includes all those who were 16 years old or older and, during the survey week, did any work at all as paid employees, or in their own business or profession, or on their own farm, or who worked 15 hours or more as unpaid workers in a family-operated enterprise. The second includes all those who did not work but had jobs or businesses from which they were temporarily absent due to illness, bad weather, vacation, labor-management dispute, or various personal reasons--whether or not they were paid by their employers for the time off and whether or not they were seeking other jobs. Data are not seasonally adjusted.

TABLE V-10. SEASONALLY ADJUSTED MICHIGAN AND U.S. CIVILIAN EMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1976-1986

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Michigan												
1976	3,517	3,572	3,583	3,581	3,606	3,595	3,632	3,644	3,662	3,666	3,664	3,682
1977	3,715	3,724	3,744	3,797	3,758	3,794	3,759	3,718	3,793	3,853	3,822	3,844
1978	3,894	3,912	3,893	3,927	3,900	3,911	3,904	3,807	3,918	3,905	3,921	3,985
1979	3,982	3,984	4,013	3,931	4,013	4,010	4,024	3,917	3,971	3,962	3,977	3,952
1980	3,904	3,866	3,847	3,752	3,691	3,713	3,681	3,716	3,731	3,725	3,722	3,757
1981	3,732	3,682	3,759	3,817	3,823	3,850	3,806	3,816	3,789	3,805	3,783	3,672
1982	3,657	3,643	3,624	3,603	3,653	3,619	3,646	3,627	3,610	3,590	3,537	3,597
1983	3,655	3,636	3,610	3,660	3,679	3,674	3,710	3,681	3,716	3,683	3,694	3,764
1984	3,733	3,787	3,845	3,870	3,848	3,874	3,892	3,891	3,890	3,913	3,900	3,893
1985	3,894	3,947	4,002	3,894	3,865	3,856	3,816	3,893	3,884	3,922	3,997	4,072
1986	4,404	4,338	4,349	4,329	4,360	4,335	4,347	4,348	4,369			
United States												
1976	87,400	87,672	87,985	88,416	88,794	88,563	89,093	89,223	89,173	89,274	89,634	89,803
1977	89,928	90,342	90,808	91,271	91,754	91,959	92,084	92,441	92,702	93,052	93,761	94,105
1978	94,384	94,519	94,755	95,394	95,769	96,343	96,090	96,431	96,670	97,133	97,485	97,581
1979	97,948	98,329	98,480	98,103	98,331	98,679	99,006	98,776	99,340	99,404	99,574	99,933
1980	99,879	99,995	99,713	99,233	98,945	98,682	98,796	98,824	99,077	99,317	99,545	99,634
1981	99,987	100,202	100,594	101,069	101,040	100,234	100,694	100,679	100,050	100,359	100,197	99,652
1982	99,737	99,785	99,738	99,584	100,088	99,435	99,471	99,636	99,487	99,202	99,098	99,062
1983	99,233	99,144	99,303	99,590	99,634	100,444	101,173	101,589	101,983	102,042	102,702	103,029
1984	103,209	103,846	103,959	104,318	105,175	105,580	105,466	105,222	105,415	105,657	105,971	106,248
1985	106,315	106,587	106,951	106,872	106,939	106,601	106,871	107,210	107,519	107,813	107,969	108,206
1986	108,955	108,561	108,788	108,892	109,110	109,673	109,882	110,155	109,891			

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Unemployed persons include those 16 year old or older who did not work at all during the survey week, were looking for work, and were available for work during the reference period, except for temporary illness. This includes those who were available for work and waiting to be recalled from layoff or were waiting to report to a new wage or salary job scheduled to start within the following 30 days.

TABLE V-11. MICHIGAN AND U.S. CIVILIAN UNEMPLOYMENT, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1975-1985

(Numbers in thousands)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	535	568	587	529	471	557	510	458	429	387	383	420
1976	396	423	420	394	368	399	387	380	335	302	338	335
1977	357	400	398	297	297	352	366	383	308	270	323	291
1978	338	298	296	274	273	299	308	338	243	229	280	288
1979	341	351	341	365	311	316	338	324	309	313	344	368
1980	439	482	468	525	608	622	618	549	515	527	537	520
1981	583	601	554	522	494	487	528	484	460	504	517	614
1982	676	683	722	652	614	618	645	634	621	633	694	741
1983	724	699	719	666	640	646	573	585	526	528	488	501
1984	529	536	540	480	499	505	509	459	429	442	468	457
1985	519	441	458	448	429	449	475	427	425	416	391	330
						United States						
1975	8,272	8,399	8,446	7,908	7,715	8,667	8,311	7,799	7,624	7,350	7,341	7,307
1976	8,286	8,143	7,631	6,996	6,415	7,772	7,697	7,443	7,148	6,958	7,224	7,154
1977	7,980	8,237	7,680	6,692	6,280	7,589	7,081	6,897	6,579	6,365	6,495	6,031
1978	7,048	6,886	6,621	5,826	5,605	6,481	6,597	6,090	5,958	5,624	5,797	5.896
1979	6,602	6,649	6,325	5,720	5,419	6,409	6,282	6,315	5,978	5,964	5,964	6,027
1980	7,234	7,177	6,983	7,023	7,501	8,481	8,603	8,202	7,655	7,674	7,682	7,430
1981	8,746	8,614	8,271	7,561	7,731	8,485	8,130	7,947	7,884	8,216	8,676	9,013
1982	10,183	10,378	10,290	9,957	9,957	10,886	11,036	10,710	10,695	10,942	11,476	11,628
1983	12,517	12,382	11,879	11,035	10,765	11,570	10,707	10,411	9,830	9,383	9,129	8,992
1984	9,755	9,407	9,057	8,525	8,154	8,582	8,714	8,382	8,051	7,989	7,869	7,978
1985	9,131	8,902	8,626	8,150	8,010	8,753	8,682	8,051	7,983	7,918	7,815	7,717

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Unemployed persons include those 16 years old or older who did not work at all during the survey week, were looking for work, and were available for work during the reference period, except for temporary illness. This includes those who were available for work and waiting to be recalled from layoff or were waiting to report to a new wage or salary job scheduled to start within the following 30 days.

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1984-1985

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment[a]		Wage and salary workers[b]		
		Number	Rate	Goods producing	Service producing	Total
Alcona, Iosco						
1984	13,375	11,500	14.0	1,600	6,200	7,800
1985	13,350	1,775	13.3	1,625	6,375	8,000
Alger						
1984	4,450	550	12.5	850	1,525	2,375
1985	4,375	625	14.1	850	1,500	2,350
Allegan						
1984	42,425	4,150	9.8	8,800	9,900	18,700
1985	41,200	4,250	10.3	8,425	10,025	18,450
Alpena						
1984	12,950	1,925	14.8	2,650	7,350	10,000
1985	13,100	2,025	15.5	2,675	7,525	10,200
Antrim						
1984	6,600	925	14.0	1,300	2,475	3,775
1985	7,000	1,050	14.9	1,350	2,625	3,975
Arenac						
1984	6,875	950	13.9	825	2,400	3,200
1985	6,550	775	11.7	825	2,350	3,175
Baraga						
1984	3,000	600	19.7	550	1,500	2,050
1985	3,050	575	19.3	575	1,525	2,100
Barry						
1984	20,175	2,175	10.8	2,575	4,700	7,275
1985	20,325	2,125	10.4	2,600	4,825	7,425
Bay, Saginaw, Midland						
1984	185,800	24,400	13.2	52,100	90,900	142,900
1985	180,800	19,800	11.0	52,400	92,700	145,100
Benzie						
1984	5,175	875	16.8	825	1,850	2,700
1985	5,050	850	16.9	750	1,925	2,675
Berrien (Benton Harbor MSA)						
1984	75,800	8,900	11.8	21,400	36,400	57,700
1985	75,400	8,400	11.1	21,000	37,200	59,000
Branch						
1984	17,375	2,075	12.0	4,450	7,225	11,650
1985	17,650	2,050	11.7	4,525	7,650	12,150
Calhoun						
1984	63,000	7,000	11.1	16,200	36,700	53,000
1985	62,900	6,600	10.5	16,400	37,800	54,200
Cass						
1984	23,325	2,475	10.6	3,975	5,300	9,300
1985	22,775	2,450	10.7	3,775	5,450	9,225
Charlevoix						
1984	9,175	1,375	15.0	2,450	3,850	6,300
1985	9,250	1,225	13.1	2,600	4,000	6,600
Cheboygan						
1984	10,100	2,275	22.5	1,325	4,400	5,725
1985	9,775	2,300	23.4	1,250	4,300	5,575

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1984-1985 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment[a]		Wage and salary workers[b]		
		Number	Rate	Goods producing	Service producing	Total
Chippewa						
1984	13,775	2,675	19.5	925	7,400	8,325
1985	13,500	2,375	17.6	975	7,525	8,500
Clare						
1984	9,325	1,525	16.3	725	4,200	4,925
1985	9,425	1,300	13.9	800	4,400	5,225
Clinton, Eaton and Ingham						
1984	225,700	22,700	10.0	40,000	141,000	181,000
1985	225,300	17,100	7.6	44,500	144,100	188,600
Emmet						
1984	12,475	1,925	15.4	1,600	7,600	9,175
1985	12,225	1,750	14.2	1,575	7,725	9,300
Genesee						
1984	201,500	23,800	11.8	69,600	100,700	170,300
1985	200,900	24,600	12.3	69,000	102,200	171,200
Gladwin						
1984	7,700	1,125	14.5	725	2,550	3,275
1985	7,850	1,000	12.7	757	2,700	3,475
Gogebic						
1984	7,525	1,375	18.2	625	4,400	5,000
1985	7,175	1,175	16.2	550	4,425	4,975
Grand Traverse, Leelanau						
1984	38,275	4,700	12.3	6,325	23,125	29,450
1985	38,225	4,100	10.7	6,800	23,700	30,500
Gratiot						
1984	17,950	2,275	12.7	3,175	7,425	10,600
1985	17,575	1,925	11.0	3,300	7,525	10,825
Hillsdale						
1984	18,900	1,950	10.3	4,400	6,650	11,075
1985	19,725	2,375	12.1	4,925	6,700	11,625
Houghton, Keweenaw						
1984	15,075	1,975	13.1	1,150	9,850	10,975
1985	14,950	1,950	13.0	1,100	10,000	11,100
Huron						
1984	16,000	1,950	12.2	2,975	6,425	9,400
1985	15,850	1,800	11.4	3,325	6,325	9,675
Ingham - see Clinton, Eaton						
Ionia						
1984	19,550	3,500	17.9	4,400	8,075	12,475
1985	19,025	2,900	15.2	4,275	8,475	12,775
Iosco - see Alcona						
Iron						
1984	6,075	900	14.8	1,050	2,625	3,675
1985	5,900	875	15.0	950	2,650	3,625
Isabella						
1984	26,750	2,625	9.8	2,475	14,500	16,975
1985	27,025	2,350	8.7	2,575	14,950	17,525
Jackson						
1984	63,800	8,000	12.5	13,300	34,000	47,300
1985	62,500	6,600	10.6	14,800	34,200	48,200

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1984-1985 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment[a]		Wage and salary workers[b]		
		Number	Rate	Goods producing	Service producing	Total
Kalamazoo						
1984	109,500	8,500	7.8	31,000	63,800	94,800
1985	109,700	7,700	7.1	32,000	65,200	97,200
Kalkaska						
1984	4,725	750	16.0	1,200	1,525	2,750
1985	4,975	800	15.9	1,375	1,575	2,950
Kent, Ottawa						
1984	331,900	30,400	9.2	105,800	177,300	283,200
1985	336,000	28,900	8.6	110,300	183,100	293,400
Keweenaw - see Houghton						
Lake						
1984	3,075	400	13.4	75	1,075	1,150
1985	3,025	375	12.7	100	1,075	1,175
Lapeer, Livingston, Macomb, Monroe, Oakland, St. Clair and Wayne[c]						
1984	2,079	225	10.8	513	1,166	1,679
1985	2,091	191	9.1	527	1,223	1,750
Leelanau - see Grand Traverse						
Lenawee						
1984	41,350	4,750	11.5	10,775	15,900	26,675
1985	41,725	4,525	10.8	11,050	16,575	27,625
Livingston - see Lapeer						
Luce						
1984	2,525	400	16.1	150	1,725	1,875
1985	2,475	375	14.7	175	1,725	1,900
Mackinac						
1984	6,925	1,975	28.6	375	2,900	3,275
1985	6,750	1,875	27.6	375	2,950	3,325
Macomb - see Lapeer						
Manistee						
1984	9,000	1,425	15.7	2,175	4,100	6,275
1985	8,750	1,450	16.6	2,050	4,075	6,125
Marquette						
1984	28,525	3,300	11.6	4,050	19,175	23,225
1985	28,450	3,575	12.5	3,925	19,325	23,250
Mason						
1984	11,300	1,700	15.1	2,450	5,025	7,475
1985	11,275	1,825	16.2	2,425	5,125	7,525
Mecosta						
1984	15,175	1,750	11.5	1,700	7,775	9,500
1985	14,975	1,750	11.7	1,650	7,875	9,525
Menominee						
1984	12,050	1,575	13.1	2,925	4,500	7,450
1985	11,925	1,600	13.3	2,900	4,550	7,450
Midland - see Bay, Saginaw						
Missaukee, Wexford						
1984	16,600	2,350	14.1	3,875	6,925	10,825
1985	17,100	2,500	14.7	4,225	7,075	11,300
Monroe - see Lapeer, Livingston, Macomb, Oakland, St. Clair and Wayne						

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1984-1985 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment[a]		Wage and salary workers[b]		
		Number	Rate	Goods producing	Service producing	Total
Montcalm						
1984	22,625	3,950	17.5	6,300	7,875	14,175
1985	22,425	3,650	16.3	6,625	7,925	14,550
Montmorency						
1984	2,600	600	22.7	350	1,050	1,400
1985	2,750	650	23.9	375	1,100	1,475
Muskegon						
1984	67,800	8,000	11.8	20,600	33,100	53,700
1985	69,300	8,700	12.5	21,500	33,700	55,200
Newaygo						
1984	17,100	2,375	13.9	2,075	5,000	7,075
1985	17,025	2,250	13.2	2,150	5,100	7,225
Oakland - see Lapeer, Livingston, Macomb, Monroe, St. Clair and Wayne						
Oceana						
1984	9,550	1,575	16.4	750	3,000	3,725
1985	9,550	1,600	16.8	775	3,000	3,750
Ogemaw						
1984	6,275	1,150	18.2	800	3,100	3,900
1985	5,875	900	15.4	800	3,025	3,850
Ontonagon						
1984	3,150	625	19.8	725	1,750	2,500
1985	3,150	625	19.6	750	1,750	2,500
Osceola						
1984	8,500	1,025	12.2	2,525	2,550	5,075
1985	8,500	1,225	14.4	2,425	2,600	5,050
Oscoda						
1984	3,100	400	13.1	250	800	1,075
1985	3,125	400	12.8	275	825	1,100
Otesgo						
1984	7,075	900	12.8	1,600	4,150	5,725
1985	7,225	950	13.2	1,725	4,200	5,925
Ottawa - see Kent						
Presque Isle						
1984	5,400	975	17.9	775	2,175	2,975
1985	5,425	1,075	19.7	825	2,150	2,975
Roscommon						
1984	6,375	975	15.5	425	3,325	3,725
1985	6,050	775	12.9	450	3,250	3,700
Saginaw - see Bay, Midland						
St. Clair - see Lapeer, Livingston, Macomb, Monroe, Oakland, and Wayne						
St. Joseph						
1984	28,425	2,900	10.2	10,325	9,600	19,950
1985	28,275	3,150	11.2	10,575	9,750	20,325
Sanilac						
1984	18,625	2,725	14.6	3,700	5,275	8,975
1985	18,325	2,175	11.9	3,925	5,400	9,325

TABLE V-14. CIVILIAN LABOR FORCE, UNEMPLOYMENT, AND EMPLOYMENT IN MICHIGAN COUNTIES, BY PLACE OF RESIDENCE, AND WAGE AND SALARY WORKERS IN MICHIGAN COUNTIES, BY PLACE OF WORK: 1984-1985 (cont.)

(Average of 12 monthly figures)

County or group of counties	Civilian labor force[a]	Unemployment		Wage and salary workers[b]		
		Number[a]	Rate	Goods producing	Service producing	Total
Schoolcraft						
1984	4,000	950	23.5	550	1,700	2,250
1985	3,800	775	20.3	525	1,725	2,275
Shiawassee						
1984	32,925	4,575	13.9	4,200	10,750	14,950
1985	32,525	4,125	12.7	4,225	11,025	15,275
Tuscola						
1984	22,875	3,300	14.4	2,325	8,525	10,850
1985	22,050	3,000	13.6	2,300	8,500	10,775
Van Buren						
1984	29,725	4,000	13.5	4,350	9,750	14,100
1985	29,225	3,650	12.5	4,450	9,825	14,275
Washtenaw						
1984	144,400	10,400	7.2	40,200	103,200	143,400
1985	146,400	9,000	6.1	40,600	108,600	149,200
Wayne - see Lapeer, Livingston, Macomb, Monroe, Oakland, and St. Clair counties						
Wexford - see Missaukee, Wexford						
Upper Peninsula						
1984	143,925	21,375	14.8	21,125	73,925	95,050
1985	133,900	20,225	15.1	20,950	74,625	95,575
Michigan[c]						
1984	4,346	486	11.2	1,066	2,316	3,381
1985	4,325	433	9.9	1,093	2,412	3,505

SOURCE: Michigan Employment Security Commission, special release.

a. Labor force includes persons involved in labor disputes. Employment and unemployment figures are on the basis of place of residence; wage and salary figures by place of work.

b. By place of work as opposed to place of residence.

c. Totals in thousands.

TABLE V-15. CIVILIAN NONFARM WAGE AND SALARY JOBS IN MICHIGAN, DATA BASED ON AN EMPLOYER SURVEY, BY INDUSTRY: 1973-1985

(Averages of 12 monthly estimates, in thousands of jobs)

Industry	1973	1974	1975	1976
Manufacturing industries	1,178.8	1,114.0	983.7	1,061.7
Durable goods industries	953.1	897.2	778.2	845.4
Lumber and wood products	16.1	15.5	12.8	14.1
Furniture and fixtures	22.5	21.9	18.6	19.6
Metal industries	252.5	235.5	199.9	223.5
Primary metal products	95.6	93.9	79.5	86.2
Fabricated metal products	156.9	141.6	120.4	137.3
Machinery (nonelectrical)	155.6	158.1	136.6	138.0
Electrical machinery	47.1	45.4	38.2	39.6
Transportation equipment	416.0	377.6	332.8	370.5
Motor vehicles and equipment	401.0	366.1	321.2	357.7
Other	15.0	11.5	11.6	12.8
Other durable goods	43.3	43.2	39.3	40.1
Nondurable goods industries	225.7	216.8	205.5	216.3
Food and kindred products	51.7	51.8	51.2	51.3
Textile mill products and apparel	27.3	24.7	22.2	25.9
Paper and allied products	26.9	26.3	23.5	24.6
Printing, publishing, and allied industries	36.9	35.5	34.6	33.7
Chemicals and petroleum refining and related industries	45.6	44.4	45.9	48.1
Other nondurable goods	37.3	34.1	27.8	32.7
Private nonmanufacturing industries[a]	1,571.1	1,601.1	1,569.8	1,626.8
Contract construction	131.4	125.8	106.3	110.0
Transportation, communication, and public utilities	153.6	153.2	144.8	145.6
Wholesale trade	150.6	153.5	146.9	148.8
Retail trade	503.3	510.9	509.6	531.1
Finance, real estate, and insurance	130.3	134.2	134.0	136.9
Selected services	489.0	510.1	514.4	541.2
Mining	12.9	13.4	13.8	13.2
Government	534.4	562.6	583.1	594.6
Federal	55.0	56.3	56.1	55.5
State	123.9	127.5	132.6	135.1
Local	355.5	378.8	394.4	404.0
TOTAL	3,284.3	3,277.7	3,136.6	3,283.1

TABLE V-15. CIVILIAN NONFARM WAGE AND SALARY JOBS IN MICHIGAN, DATA BASED ON AN EMPLOYER SURVEY, BY INDUSTRY: 1973-1985 (cont.)

(Averages of 12 monthly estimates, in thousands of jobs)

1977	1978	1979	1980	1981	1982	1983	1984	1985
1,128.4	1,179.6	1,160.1	998.9	979.0	876.9	880.5	945.8	984.1
905.9	952.8	935.1	795.0	778.1	684.5	685.8	743.7	770.3
14.4	14.4	14.1	11.6	10.5	9.7	10.8	11.8	12.2
20.0	21.5	23.0	23.0	23.0	21.6	22.2	25.4	25.7
237.3	247.2	238.8	185.3	182.5	152.8	152.4	169.9	172.2
91.6	91.7	88.0	67.3	65.0	51.1	49.5	52.7	51.7
145.7	155.5	150.8	118.0	117.5	101.7	102.9	117.2	120.5
150.6	159.8	167.2	158.4	154.8	132.1	116.9	128.4	131.9
40.9	42.7	41.9	34.9	33.0	30.4	30.6	33.4	35.8
400.1	423.7	405.6	340.2	334.9	302.7	317.5	338.3	353.2
386.5	409.6	392.7	326.3	319.4	286.5	299.7	319.7	333.5
13.6	14.1	12.9	13.9	15.5	16.2	17.8	18.6	19.6
42.6	43.5	44.5	41.6	39.4	35.2	35.4	36.5	39.3
222.5	226.8	225.0	203.9	200.9	192.4	194.7	202.2	213.9
51.9	52.3	52.1	48.8	46.9	46.1	45.4	45.7	46.0
27.3	27.7	25.8	19.2	19.3	17.3	18.8	20.3	21.4
24.4	23.7	23.8	21.6	21.7	20.4	20.4	20.8	20.7
32.3	33.6	34.1	33.2	33.2	32.7	34.0	35.7	38.5
49.7	48.7	47.8	47.5	46.6	44.9	39.8	40.0	43.2
36.9	40.8	41.4	33.6	33.2	31.0	36.3	39.7	44.1
1,717.3	1,818.4	1,855.9	1,816.1	1,786.9	1,738.6	1,772.8	1,831.0	1,941.2
122.8	138.8	139.5	116.8	106.8	89.5	86.5	89.2	98.7
150.8	155.9	160.6	152.2	147.9	143.3	139.4	138.5	142.2
151.8	164.2	170.4	161.5	157.9	150.7	154.6	170.0	174.9
557.1	584.9	590.9	572.1	556.8	542.6	556.9	573.6	608.3
142.2	147.4	154.5	156.5	155.0	151.9	151.4	153.8	161.3
580.5	613.9	626.8	644.5	649.6	650.2	675.0	696.5	745.3
12.1	13.3	13.2	12.5	12.9	10.4	9.0	9.4	10.3
596.8	611.4	621.0	627.8	598.4	577.8	569.8	566.5	579.9
54.7	54.6	56.7	58.2	55.9	55.9	55.9	56.2	57.6
136.9	143.6	147.7	152.3	147.8	142.2	140.5	138.2	143.1
405.2	413.2	416.6	417.3	394.7	379.7	373.4	372.1	379.2
3,442.5	3,609.4	3,637.0	3,442.8	3,364.3	3,193.3	3,223.1	3,343.3	3,505.2

SOURCE: Michigan Employment Security Commission, special release.

a. Excludes domestic workers and agricultural employment.

TABLE V-12. SEASONALLY ADJUSTED MICHIGAN AND U.S. UNEMPLOYMENT RATES, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1975-1985

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	13.3	13.3	13.6	13.2	12.5	13.8	12.7	12.2	12.0	11.7	10.6	11.0
1976	9.8	9.5	9.3	9.6	9.6	9.5	9.2	9.7	9.2	9.0	9.1	8.6
1977	8.4	8.7	8.6	7.0	7.6	8.1	8.4	9.6	8.4	7.9	8.3	7.4
1978	7.5	6.1	6.2	6.3	6.8	6.8	6.8	8.4	6.8	6.8	7.2	7.1
1979	7.3	7.1	7.1	8.2	7.4	7.1	7.2	8.0	8.2	8.5	8.4	8.9
1980	9.4	10.1	10.1	12.0	14.3	14.3	13.9	13.3	13.2	13.4	13.1	12.4
1981	12.7	13.1	12.0	11.8	11.6	11.2	11.8	11.7	11.9	12.6	12.5	14.5
1982	14.8	14.9	15.8	15.1	14.5	14.6	14.7	15.3	15.8	15.8	16.9	17.2
1983	15.8	15.2	15.8	15.3	15.0	14.9	13.1	14.1	13.5	13.3	12.1	11.9
1984	11.6	11.5	11.4	10.9	11.6	11.5	11.3	10.9	11.0	10.9	11.1	10.6
1985	11.0	9.2	9.3	10.2	10.1	10.3	10.9					
						United States						
1975	8.1	8.1	8.6	8.8	9.0	8.8	8.6	8.4	8.4	8.4	8.3	8.2
1976	7.9	7.7	7.6	7.7	7.4	7.6	7.8	7.8	7.6	7.7	7.8	7.8
1977	7.5	7.6	7.4	7.2	7.0	7.2	6.9	7.0	6.8	6.8	6.8	6.4
1978	6.4	6.3	6.3	6.1	6.0	5.9	6.2	5.9	6.0	5.8	5.9	6.0
1979	5.9	5.9	5.8	5.8	5.6	5.7	5.7	6.0	5.9	6.0	5.9	6.0
1980	6.3	6.3	6.3	6.9	7.5	7.6	7.8	7.7	7.5	7.5	7.5	7.2
1981	7.5	7.4	7.4	7.2	7.5	7.5	7.2	7.4	7.6	7.9	8.3	8.5
1982	8.6	8.9	9.0	9.3	9.4	9.6	9.8	9.8	10.1	10.4	10.7	10.7
1983	10.4	10.4	10.3	10.2	10.2	10.1	9.4	9.4	9.2	8.8	8.4	8.2
1984	8.0	7.8	7.8	7.8	7.5	7.2	7.5	7.5	7.4	7.3	7.1	7.2
1985	7.4	7.3	7.3	7.3	7.3	7.3	7.3					

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Figures show unemployment as a percentage of civilian labor force and are not seasonally adjusted.

TABLE V-13. MICHIGAN AND U.S. UNEMPLOYMENT RATES, DATA BASED ON A HOUSEHOLD SAMPLE, BY MONTH: 1975-1985

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1975	13.7	14.5	14.9	13.6	12.3	14.2	13.1	11.7	11.1	10.0	9.8	10.8
1976	10.3	10.7	10.6	10.0	9.3	9.9	9.6	9.3	8.4	7.5	8.4	8.3
1977	8.9	9.8	9.7	7.3	7.4	8.4	8.8	9.2	7.5	6.5	7.7	7.0
1978	8.1	7.2	7.2	6.6	6.6	7.0	7.3	8.0	5.8	5.5	6.6	6.7
1979	8.0	8.2	8.0	8.6	7.2	7.2	7.7	7.5	7.2	7.2	7.9	8.5
1980	10.3	11.3	11.1	12.4	14.1	14.1	14.2	12.6	12.0	12.3	12.5	12.2
1981	13.8	14.3	13.1	12.2	11.4	11.1	12.0	11.0	10.7	11.6	12.0	14.4
1982	16.0	16.1	17.0	15.5	14.3	14.3	14.7	14.5	14.5	14.9	16.4	17.3
1983	17.0	16.5	17.0	15.5	14.7	14.6	13.1	13.4	12.3	12.5	11.7	11.9
1984	12.8	12.6	12.5	11.0	11.3	11.3	11.3	10.3	9.8	10.1	10.7	10.6
1985	12.1	10.2	10.4	10.3	9.8	10.2	10.8	9.7	9.8	9.6	8.9	7.6
						United States						
1975	9.0	9.1	9.1	8.6	8.3	9.1	8.7	8.2	8.1	7.8	7.8	7.8
1976	8.8	8.7	8.1	7.4	6.8	8.0	7.8	7.6	7.4	7.2	7.4	7.4
1977	8.3	8.5	7.9	6.9	6.4	7.5	7.0	6.8	6.6	6.4	6.5	6.0
1978	7.1	6.9	6.6	5.8	5.5	6.2	6.3	5.9	5.8	5.4	5.6	5.7
1979	6.4	6.4	6.1	5.5	5.2	6.0	5.9	5.9	5.7	5.6	5.6	5.7
1980	6.9	6.8	6.6	6.7	7.1	7.8	7.9	7.6	7.2	7.1	7.1	6.9
1981	8.2	8.0	7.7	7.0	7.1	7.7	7.3	7.2	7.3	7.5	7.9	8.3
1982	9.4	9.6	9.5	9.2	9.1	9.8	9.8	9.6	9.7	9.9	10.4	10.5
1983	11.4	11.3	10.8	10.0	9.8	10.2	9.4	9.2	8.8	8.4	8.1	8.3
1984	8.8	8.4	8.1	7.6	7.2	7.4	7.5	7.3	7.1	7.0	6.9	7.0
1985	8.0	7.8	7.5	7.1	7.0	7.5	7.4	6.9	6.9	6.8	6.7	6.7

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, special release.

NOTE: Figures show unemployment as a percentage of civilian labor force and are not seasonally adjusted.

TABLE V-16. CIVILIAN WAGE AND SALARY EMPLOYMENT IN MAJOR MICHIGAN LABOR MARKETS, DATA BASED ON EMPLOYER SURVEY, LABOR MARKET AREA, BY INDUSTRY: 1985

(Averages of 12 monthly estimates, in thousands of jobs)

Industry	Ann Arbor	Battle Creek	Benton Harbor	Detroit	Flint
Manufacturing industries	36.7	14.9	20.4	478.9	64.9
Durable goods industries	31.5	6.4	15.8	398.0	62.0
Lumber and wood products	0	0	0	2.0	0
Furniture and fixtures	0	0	0	1.7	0
Metal industries	2.1	2.7	4.4	85.6	10.4
Primary metal products	0	1.2	2.6	25.6	0
Fabricated metal products	2.1	1.5	1.8	60.0	10.4
Machinery (nonelectrical)	3.2	2.6	3.8	71.8	1.4
Electrical machinery	0	0	4.6	8.9	0
Transportation equipment	17.9	0	1.7	210.7	49.4
Motor vehicles and equipment	(D)	0	(D)	200.7	(D)
Other	(D)	0	(D)	10.1	(D)
Other durable goods	8.3	1.1	1.3	17.3	.8
Nondurable goods industries	5.2	8.4	4.6	80.9	2.9
Food and kindred products	0	6.4	.6	15.1	0
Textile mill products and apparel	0	0	0	12.9	0
Paper and allied products	0	1.1	.7	3.9	0
Printing, publishing, and allied industries	2.6	0	1.5	18.4	.9
Chemicals and petroleum refining and related industries	0	0	0	10.7	0
Other nondurable goods	2.6	.9	1.8	19.9	2.0
Private nonmanufacturing industries[a]	65.2	27.9	30.5	1,043.0	83.7
Contract construction	3.8	1.5	1.3	46.6	4.0
Transportation, communication, and public utilities	4.4	1.7	2.5	77.7	4.6
Wholesale trade	4.1	1.4	2.6	97.7	10.8
Retail trade	19.5	8.6	9.0	307.2	29.5
Finance, real estate, and insurance	4.2	3.9	2.2	95.1	5.9
Selected services	29.0	10.8	12.8	417.8	28.8
Mining	0	0	0	.9	0
Government	47.3	11.5	8.1	227.6	22.5
Federal	2.5	4.5	.5	32.2	1.4
State	33.5	.4	.5	28.6	2.0
Local	11.3	6.6	7.1	166.8	19.2
TOTAL	149.2	54.2	59.0	1,749.5	171.2

TABLE V-16. CIVILIAN WAGE AND SALARY EMPLOYMENT IN MAJOR MICHIGAN LABOR MARKETS, DATA BASED ON EMPLOYER SURVEY, LABOR MARKET AREA, BY INDUSTRY: 1985

(Averages of 12 monthly estimates, in thousands of jobs)

Grand Rapids	Jackson	Kalamazoo	Lansing	Muskegon	Midland-Bay City-Saginaw	Upper Peninsula
99.0	12.8	29.1	39.3	19.4	46.7	13.9
70.2	10.8	12.5	35.3	16.4	30.0	8.9
2.0	0	0	0	0	0	3.2
18.3	0	0	0	0	0	0
18.7	3.7	5.4	3.1	3.3	1.2	1.2
3.2	.7	0	.9	2.2	0	.7
15.5	3.0	5.4	2.2	1.1	1.2	.5
13.7	2.9	2.2	2.7	6.8	3.1	1.2
5.0	0	0	0	0	1.1	0
4.8	2.6	1.9	27.9	0	15.7	1.2
(D)	(D)	(D)	(D)	0	0	(D)
(D)	(D)	(D)	(D)	0	0	(D)
7.7	1.6	3.0	1.6	6.3	8.9	2.1
28.8	2.0	16.6	4.0	2.9	16.7	5.0
7.2	0	.7	0	0	2.3	.8
4.4	0	0	0	0	0	0
1.7	0	4.9	0	0	0	3.1
4.7	0	1.4	1.1	0	0	.7
4.9	0	7.6	0	.7	0	0
5.9	2.0	2.0	2.9	2.2	14.4	.4
165.0	26.4	52.6	88.5	28.3	79.1	52.4
10.9	1.0	2.8	4.7	2.0	5.4	4.3
10.6	4.3	3.1	5.2	2.7	7.0	4.9
19.2	2.1	3.7	7.2	2.0	5.4	2.6
52.4	8.1	17.3	28.2	9.6	27.2	18.1
11.8	1.6	3.9	10.3	1.3	6.0	3.3
59.7	9.2	21.7	32.3	10.6	27.9	16.5
0	0	0	0	0	0	2.7
29.4	9.0	15.6	60.9	7.6	19.3	29.2
2.1	.5	.9	2.9	.4	1.7	3.2
2.4	2.5	6.6	37.4	1.1	1.8	8.6
24.8	6.0	8.0	20.6	6.1	15.8	17.5
293.4	48.2	97.2	188.6	55.2	145.1	95.6

SOURCE: Michigan Employment Security Commission, special release.

NOTE: Labor Market Areas are the same as Standard Metropolitan Statistical Areas, except for Benton Harbor (Berrien County), and Upper Peninsula (15 counties) which are not SMSAs.

a. Excludes domestic workers and agricultural employment.
(D): Withheld to avoid disclosing data for individual companies.

VI. INCOME AND COST OF LIVING

The following comments are excerpts from a mimeographed description of the personal income statistics issued by the Bureau of Economic Analysis, an agency within the U.S. Department of Commerce:

> BEA's personal income estimates are unique in that they provide its users with an economic base profile, extending over a span of more than forty years and covering more than three-thousand sub-areas, which can be combined into any multicounty geographic area needed. That is, it covers the Nation county-by-county; it is prepared annually and it is presented in substantial industrial detail.
>
> Because of its conceptual scope and its richness of component detail, personal income can be used to measure and trace the levels and types of income flows received or earned by individuals residing or working in a specific political subdivision or micro-economy. Thus, it provides a local area data base for economic decision-making and for the implementation of those Federal, State or local government programs requiring an analysis of economic activities in, or the economic well-being of the residents of, a particular area. Specific applications include its use as a measure of the size of the consumer market; as an indirect measure of the industrial market; as a measure of the quality of a market and the economic welfare of an area's residents; as an indicator of an area's economic health; as an analytical framework which can be used in assessing an area's economy and against which alternative developmental programs can be evaluated or as a basis for gauging the capacity of an area to support public service expenditures.
>
> Personal income is the sum of several hundred individually estimated component flows, both monetary and non-monetary, and it encompasses most forms of income flowing to persons including Federal, State and local governments, households, institutions, and foreign governments.
>
> Two of the most important characteristics of the county income estimates are that they are constructed from a wide variety of statistical information not necessarily designed for income estimation; (this information consists mainly of data obtained from business and government records showing disbursements to individuals) and the BEA national and State estimates of personal income are used as statistical "frames of reference." Thus State totals are allocated to the counties on the basis of the best available data. A detailed procedure of estimation is followed to maximize reliability and to obtain analytically useful information by county on income by type and by industry. This use of extensive detail is the hallmark of a reliable measurement effort because it reflects, with reasonable reliability, the interindustry or intercomponent differentials at both the State and county levels, and it provide the detail needed to audit the sources and methods of estimation. This approach has an added virtue in that it gives use the opportunity to take maximum advantage of the benevolent "law" of offsetting error.

It should also be emphasized that while the BEA estimates of county personal income and employment incorporate a great deal of basic data which may be presumed, from their general characteristics, to be "reliable," it also uses other data of differing quality, scope and relevance. In order to bridge the gaps or deficiencies in the poorer quality statistical source materials available for county income estimation, resort must be made to assumptions and indirect procedures.

Reliance on indirect methods and procedures makes it impossible to specify error in formal probabilistic or statistical terms. The importance of this limitation is increased by two circumstances; (a) the extent of indirect methods varies considerably over the forty-year estimating span, and (b) the industry structures of States and counties are differentially sensitive to such methods.

Personal Income Defined--Personal income is the current income of residents of an area from all sources. It is measured after deduction of personal contributions to social security, government retirement, and other social insurance programs but before deduction from personal taxes. It includes income received from business, Federal, State and local governments, households and institutions, and foreign governments. It consists of wages and salaries (in cash and in kind, including tips and bonuses as well as contractual compensation), various types of supplementary earnings termed other labor income (the largest being employer contributions to private pension, health and welfare funds), the net incomes of owners of unincorporated businesses (farm and nonfarm with the latter including the incomes of independent professionals), net rental income, royalties, dividends, interest, and government and business transfer payments (consisting in general of disbursements to persons for which no services are rendered currently, such as unemployment benefits, social security payments, medicare benefits, retirement pay of governmental programs, and welfare and relief payments).

To measure personal income on a local area basis, criteria for allocating income or counties or SMSA's must be established. In the case of labor and entrepreneurial income, the criteria can be either the place-of-work of the income recipient or his place-of-residence. The difference between the two concepts is the net flow of commuters' earnings.

In BEA's local area income series, personal income is measured on a where-received (i.e., place-of-residence) basis; however, the bulk of the estimates of earnings by broad industrial source or on a where-earned basis.

Earnings on a residence basis, equals earnings on a place-of-work basis minus the earnings of persons who work in the given area but reside in another area, plus the earnings of persons who reside in the given area but work in another area.

---

1. Earnings are the sum of wages and salaries, other labor income, and self-employment income.

> Both measures of local area earnings are required. In the first construct, earnings, designated as "where-earned," are estimated by industry by place-of-work to provide a basis for the analysis of the industrial structure of a given area. In the second construct, designated as "where-received," earnings (where-earned) are adjusted to reflect place-of-residence which together with the other components of total personal income yields a useful basis for the analysis of consumer markets and purchasing power. When expressed on a per capita basis, the total personal income is an indicator of the economic well-being of the residents of a sub-area.
>
> This adjustment to a place-of-residence is made to the all-industry earnings total for each county. A more precise method would be to convert the place-of-work earnings to a place-of-residence by computing adjustment factor for each major industry group, thus reflecting industrial differential in commuting flows. There is, however, little likelihood that the industrial detail needed to carry out such a procedure will be forthcoming in the near future.
>
> The distinction between place-of-work and residence cannot be applied to the other components of the income flow--property income and transfer payment. In the case of property income an alternative criterion, resembling the place-of-work concept, is possible, i.e., the allocation of these incomes to the areas in which the businesses that generated them are located. However, conceptual and statistical difficulties that have not been satisfactorily resolved stand in the way of the application of this criterion. And even if these difficulties did not exist, it would not be advisable to apply the criterion to the property income component of personal income, since the latter cannot be transformed into a satisfactory measure of the contribution of capital to production, mainly because it excludes all components of profits other than dividends.

Readers of the Abstract who require additional detail of personal income for Michigan or its subdivisions, other than that published in this chapter are invited to contact the Bureau of Business Research, School of Business Administration, Wayne State University, which is a repository for these statistics.

Selected detail of transfer payments appears in Table VII-2. The personal income earnings components for industries were used as measures of the economic importance of government (Chapter X), agriculture (Chapter XII), construction (Chapter XIV), manufacturing (Chapter XV), trade (Chapters XX and XXI), finance, insurance, and real estate (Chapter XXI) and services (Chapter XXIII).

The poverty threshold is developed by the Bureau of the Census as a multiple of the income needed to purchase an "economy" diet, one that just meets minimum standards of nutrition and diversity. Government studies have shown that for households with three or more individuals, the multiple is three, that is, one-third of the budget goes for food. In two-person households, food absorbs 27 percent of the minimum adequate budget, and for single individuals the ratio is even smaller.

Consumer price indexes are compiled by the Bureau of Labor Statistics. Essentially, these represent the change in the cost of purchasing a fixed market basket of goods and services. CPIs are calculated for a selection of cities in the country, including Detroit. The national index is produced separately on the basis of average prices of individual items nationally.

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TABLE VI-1. TOTAL AND PER CAPITA PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES: 1929-1985

	Total income (millions of dollars)			Per capita income (dollars)		
Year	Michigan	United States	Percentage[a]	Michigan	United States	Percentage
1929	3,770	84,894	4.44	786	697	112.8
1930	3,165	76,173	4.16	655	619	105.8
1931	2,590	65,377	3.96	540	527	102.5
1932	1,888	50,050	3.77	395	401	98.5
1933	1,664	46,916	3.55	348	374	93.0
1934	2,173	53,648	4.05	453	425	106.6
1935	2,560	60,239	4.25	529	473	111.8
1936	3,017	68,405	4.41	617	534	115.5
1937	3,382	73,721	4.59	681	572	119.1
1938	2,874	67,918	4.23	568	523	108.6
1939	3,199	72,301	4.42	620	552	112.3
1940	3,586	77,739	4.61	675	589	114.6
1941	4,493	95,103	4.72	822	713	115.3
1942	5,780	121,496	4.76	1,041	902	115.4
1943	7,242	147,772	4.90	1,342	1,097	122.3
1944	7,529	158,959	4.74	1,379	1,186	116.3
1945	7,190	163,359	4.40	1,315	1,225	107.3
1946	7,743	175,411	4.41	1,318	1,247	105.7
1947	8,829	188,539	4.68	1,453	1,312	110.7
1948	9,550	207,582	4.60	1,537	1,421	108.2
1949	9,516	204,918	4.64	1,503	1,378	109.1
1950	10,811	225,684	4.79	1,687	1,492	113.1
1951	12,066	252,485	4.78	1,857	1,647	112.8
1952	12,908	268,983	4.80	1,941	1,728	112.3
1953	14,663	284,866	5.15	2,149	1,800	119.4
1954	14,257	286,953	4.97	2,018	1,781	113.3
1955	15,825	307,601	5.14	2,172	1,872	116.0
1956	16,472	329,933	4.99	2,206	1,972	111.9
1957	16,917	348,309	4.86	2,235	2,044	109.3
1958	16,602	358,913	4.65	2,165	2,061	105.0
1959	17,625	382,548	4.61	2,269	2,160	105.0
1960	18,328	398,843	4.60	2,339	2,216	105.6
1961	18,281	414,285	4.41	2,316	2,264	102.3
1962	19,560	440,023	4.45	2,466	2,369	104.1
1963	20,887	462,406	4.52	2,592	2,454	105.6
1964	22,904	495,188	4.63	2,798	2,592	107.9
1965	25,511	536,152	4.76	3,053	2,772	110.1
1966	27,844	582,630	4.78	3,271	2,980	109.8
1967	28,967	623,757	4.64	3,357	3,161	106.2
1968	32,010	683,561	4.68	3,681	3,430	107.3

TABLE VI-1. TOTAL AND PER CAPITA PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES: 1929-1985 (cont.)

	Total income (millions of dollars)			Per capita income (dollars)		
Year	Michigan	United States	Percentage[a]	Michigan	United States	Percentage
1969[r]	35,597[r]	766,649[r]	4.64[r]	4,054[r]	3,809[r]	106.4[r]
1970[r]	36,751[r]	825,528[r]	4.45[r]	4,131[r]	4,051[r]	102.0[r]
1971[r]	39,966[r]	888,453[r]	4.50[r]	4,455[r]	4,296[r]	103.7[r]
1972[r]	44,382[r]	976,071[r]	4.55[r]	4,918[r]	4,664[r]	105.4[r]
1973[r]	49,828[r]	1,095,076[r]	4.55[r]	5,493[r]	5,181[r]	106.0[r]
1974[r]	53,399[r]	1,204,070[r]	4.43[r]	5,862[r]	5,644[r]	103.9[r]
1975[r]	56,378[r]	1,307,539[r]	4.31[r]	6,190[r]	6,069[r]	102.0[r]
1976[r]	63,738[r]	1,446,099[r]	4.41[r]	6,991[r]	6,647[r]	105.2[r]
1977[r]	72,036[r]	1,601,844[r]	4.50[r]	7,867[r]	7,289[r]	107.9[r]
1978[r]	80,400[r]	1,806,207[r]	4.45[r]	8,737[r]	8,133[r]	107.4[r]
1979[r]	88,552[r]	2,026,684[r]	4.36[r]	9,574[r]	9,025[r]	106.1[r]
1980[r]	94,106[r]	2,252,021[r]	4.18[r]	10,168[r]	9,910[r]	102.6[r]
1981[r]	100,084[r]	2,512,327[r]	3.98[r]	10,867[r]	10,940[r]	99.3[r]
1982[r]	101,240[r]	2,660,940[r]	3.80[r]	11,105[r]	11,470[r]	96.8[r]
1983[r]	107,108[r]	2,833,184[r]	3.78[r]	11,830[r]	12,093[r]	97.8[r]
1984[r]	117,661[r]	3,101,402[r]	3.79[r]	12,989[r]	13,114[r]	99.0[r]
1985	123,673	3,310,545	3.74	13,608	13,867	98.1

SOURCE: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, August 1986.

a. Michigan as a percentage of U.S.

r. Figures revised.

TABLE VI-2. TOTAL AND PER CAPITA DISPOSABLE PERSONAL INCOME IN MICHIGAN AND THE UNITED STATES: 1958-1985

	Total income (Millions of dollars)			Per capita income (dollars)		
Year	Michigan	United States	Percent-age	Michigan	United States	Percen-age
1958	14,747	315,401	4.7	1,923	1,820	105.7
1959	15,589	335,007	4.7	2,007	1,900	105.6
1960	16,081	348,724	4.6	2,053	1,938	105.9
1961	16,139	362,467	4.5	2,045	1,981	103.2
1962	17,096	383,446	4.5	2,155	2,065	104.4
1963	18,182	402,344	4.5	2,256	2,135	105.7
1964	20,202	436,805	4.6	2,468	2,286	108.0
1965	22,406	471,557	4.8	2,681	2,438	110.0
1966	24,280	508,621	4.8	2,852	2,602	109.6
1967	25,138	542,238	4.6	2,913	2,747	106.0
1968	27,245	587,398	4.6	3,133	2,947	106.3
1969[r]	29,832[r]	651,096[r]	4.6[r]	3,397[r]	3,234[r]	105.0[r]
1970[r]	31,256[r]	709,957[r]	4.4[r]	3,513[r]	3,484[r]	100.8[r]
1971[r]	34,285[r]	771,730[r]	4.4[r]	3,821[r]	3,731[r]	102.4[4]
1972[r]	37,335[r]	834,654[r]	4.5[r]	4,137[r]	3,988[r]	103.7[r]
1973[r]	42,321	943,635[r]	4.5[r]	4,665[r]	4,465[r]	104.5[r]
1974[r]	45,579[r]	1,032,853[r]	4.4[r]	5,003[r]	4,841[r]	103.3[r]
1975[r]	48,779[r]	1,137,411[r]	4.3[r]	5,356[r]	5,279[r]	101.6[r]
1976[r]	54,344[r]	1,247,873[r]	4.4[r]	5,960[r]	5,736[r]	103.9[r]
1977[r]	60,814[r]	1,374,288[r]	4.4[r]	6,641[r]	6,254[r]	106.2[r]
1978[r]	67,350[r]	1,545,709[r]	4.4[r]	7,319[r]	6,960[r]	105.2[r]
1979[r]	74,184[r]	1,722,740[r]	4.3[r]	8,021[r]	7,671[r]	104.6[r]
1980[r]	79,838[4]	1,912,276[4]	4.2[r]	8,626[r]	8,415[r]	102.5[r]
1981[r]	84,349[r]	2,119,926[r]	4.0[r]	9,159[r]	9,232[r]	99.2[r]
1982[r]	86,061[r]	2,252,631[r]	3.8[r]	9,440[r]	9,710[r]	97.2[r]
1983[r]	91,172[r]	2,423,679[r]	3.8[r]	10,070[r]	10,345[r]	97.3[r]
1984[r]	100,656[r]	2,662,815[r]	3.8[r]	11,112[r]	11,259[r]	98.7[r]
1985	104,447	2,825,215	3.7	11,492	11,834	97.1

SOURCE: Bureau of Economic Analysis, Regional Economic Information System, August 1986.

r. Figures revised.

TABLE VI-1 TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984

(In millions of dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alcona	37.9	43.0	51.0	57.1	62.5	70.1	73.4	78.1	85.2
Alger	38.9	43.5	51.9	56.3	60.4	64.6	67.6	71.1	77.2
Allegan	375.8	430.5	531.6	611.9	637.9	697.8	729.3	784.9	886.0
Alpena	171.3	189.4	210.6	232.3	249.9	265.3	265.1	282.9	307.0
Antrim	74.0	86.1	97.8	111.7	119.5	131.3	135.5	141.2	158.2
Arenac	65.3	74.2	82.8	92.6	98.7	109.2	113.9	120.7	132.7
Baraga	39.8	43.1	49.4	54.3	58.0	61.8	62.6	64.6	69.1
Barry	219.0	246.0	297.3	336.7	352.6	393.1	408.1	430.6	480.8
Bay	736.2	837.6	925.6	1,013.9	1,063.9	1,145.6	1,170.3	1,218.9	1,320.8
Benzie	50.1	58.3	66.6	73.2	76.5	85.5	90.7	95.8	105.9
Berrien	1,032.9	1,160.5	1,270.7	1,375.0	1,446.9	1,564.1	1,599.2	1,675.0	1,817.7
Branch	218.4	253.7	288.5	322.5	328.4	352.9	357.4	378.2	402.2
Calhoun	955.6	1,043.9	1,140.2	1,252.0	1,328.9	1,432.6	1,470.1	1,519.5	1,616.2
Cass	272.8	300.5	339.2	382.4	391.3	418.6	448.9	483.8	548.7
Charlevoix	97.4	112.6	128.3	143.3	154.9	166.1	172.1	179.1	193.3
Cheboygan	93.7	105.7	117.7	132.9	145.7	154.9	160.1	168.0	178.9
Chippewa	165.7	164.8	163.8	174.2	186.5	204.1	211.7	219.3	236.8
Clare	96.0	112.5	127.1	141.7	149.0	165.3	174.1	185.8	203.6
Clinton	303.5	347.0	414.9	467.5	485.5	529.5	563.5	610.1	657.0
Crawford	39.1	43.8	49.0	53.8	59.6	66.3	69.5	74.6	81.0
Delta	200.8	216.2	234.8	259.5	283.5	316.9	338.7	347.0	368.9
Dickinson	152.0	170.8	189.5	212.0	224.5	237.5	253.6	270.8	294.4
Eaton	479.4	565.8	698.6	804.3	844.8	915.3	965.9	1,047.9	1,137.8
Emmet	121.4	136.2	153.9	173.4	190.6	205.9	216.4	233.7	253.1
Genesee	3,143.6	3,623.2	3,965.8	4,325.8	4,577.0	4,911.0	4,766.4	5,167.1	5,722.4

TABLE VI-3. TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984 (cont.)

(In millions of dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Manistee	110.5	126.9	146.4	160.6	171.6	186.8	188.2	202.3	218.3
Marquette	390.7	423.2	493.2	543.6	572.6	619.3	622.2	643.8	698.7
Mason	121.4	136.6	153.8	171.3	185.0	202.3	205.4	217.6	241.7
Mecosta	124.4	139.4	159.3	180.2	207.1	218.1	226.2	245.4	270.1
Menominee	123.3	137.9	158.0	177.4	188.9	208.0	218.9	230.6	258.4
Midland	483.1	545.9	613.2	686.0	741.0	820.3	842.6	912.5	1,003.4
Missaukee	37.1	40.3	48.9	55.7	60.3	65.7	68.8	72.5	82.5
Monroe	785.5	909.4	1,022.1	1,144.2	1,206.9	1,284.2	1,352.2	1,462.1	1,601.6
Montcalm	227.3	258.8	283.9	313.5	357.1	397.2	407.8	435.7	478.0
Montmorency	30.0	34.9	41.9	47.0	49.9	54.5	58.1	61.0	65.6
Muskegon	891.6	980.9	1,089.0	1,209.0	1,293.9	1,392.9	1,426.0	1,480.7	1,634.3
Newaygo	148.2	164.9	198.9	223.7	233.3	257.3	275.7	292.2	328.1
Oakland	8,342.7	9,682.6	11,841.2	13,241.0	13,819.5	14,593.5	14,938.0	15,987.4	17,923.9
Oceana	93.7	108.2	127.0	138.6	145.1	159.2	168.7	174.6	190.5
Ogemaw	63.3	70.9	80.1	92.2	99.7	108.9	114.8	122.1	134.4
Ontonagon	49.3	51.2	52.3	56.9	63.9	73.8	73.1	70.6	70.8
Osceola	73.7	84.2	92.8	103.1	116.7	126.8	135.5	146.6	162.4
Oscoda	23.1	25.4	32.1	35.8	38.1	41.5	43.8	46.5	50.3
Otsego	73.1	84.7	95.9	107.8	118.4	130.1	130.3	138.6	154.5
Ottawa	852.2	994.1	1,149.8	1,321.0	1,412.6	1,555.8	1,639.2	1,791.4	2,010.1
Presque Isle	62.7	69.9	76.8	84.7	90.8	101.6	106.2	109.0	120.7
Roscommon	66.9	76.8	91.0	103.6	116.2	130.2	139.7	149.5	164.3
Saginaw	1,511.5	1,714.0	1,823.2	1,976.0	2,112.5	2,233.8	2,194.7	2,339.4	2,518.2
St. Clair	774.0	882.7	1,101.8	1,220.5	1,278.3	1,367.9	1,409.6	1,510.2	1,672.0
St. Joseph	305.6	340.9	384.9	430.8	464.4	506.1	527.9	557.6	620.2

TABLE VI-5. PERCENTAGE CHANGE IN PER CAPITA PERSONAL INCOME, 1974-1984 AND 1983-1984, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO PER CAPITA PERSONAL INCOME: 1984

County	Per capita personal income	Percent change		County	Per capita personal income	Percent change	
		1974-1984	1983-1984			1974-1984	1983-1984
Oakland	17,837	144.4	11.3	Charlevoix	9,810	126.0	8.0
Washtenaw	14,670	167.5	11.0	Alpena	9,775	121.1	8.4
Macomb	14,498	133.0	11.2	Manistee	9,772	143.0	7.6
Livingston	13,291	162.3	10.9	Van Buren	9,700	110.9	7.0
Midland	13,269	127.6	8.4	Marquette	9,645	119.4	8.1
Genesee	13,181	142.7	11.1	Montcalm	9,607	109.6	7.7
Kalamazoo	12,817	129.2	7.6	Mackinac	9,583	144.3	6.6
Eaton	12,742	158.0	6.8	Benzie	9,504	127.2	10.9
Kent	12,448	123.8	9.9	Antrim	9,421	130.3	11.0
Wayne	12,303	98.0	10.2	Delta	9,352	118.9	6.5
Ingham	12,277	128.5	6.9	Mason	9,142	115.1	10.3
Monroe	12,226	133.5	9.1	Roscommon	9,056	145.0	7.0
Ottawa	12,208	135.7	9.9	Newaygo	9,054	130.9	10.7
Grand Traverse	12,201	145.1	12.2	Wexford	9,008	117.8	9.6
St. Clair	12,120	147.0	10.1	Kalkaska	8,971	116.5	9.4
Clinton	11,885	142.6	7.6	Iosco	8,927	108.1	6.0
Calhoun	11,729	114.4	6.5	Schoolcraft	8,921	135.3	5.4
Shiawassee	11,613	128.3	11.1	Gogebic	8,867	110.8	4.1
Leelanau	11,601	134.5	11.5	Isabella	8,849	134.5	7.3
Lapeer	11,516	146.8	9.4	Arenac	8,755	112.9	9.7
Saginaw	11,495	112.4	8.1	Alger	8,750	145.5	9.7
Cass	11,476	138.7	13.4	Presque Isle	8,694	133.8	10.9
Dickinson	11,381	124.9	5.8	Oceana	8,662	113.0	8.8
Lenawee	11,369	123.2	9.0	Alcona	8,646	158.2	9.3
Bay	11,271	122.0	8.2	Cheboygan	8,558	120.1	6.7
Huron	11,235	108.6	17.1	Montmorency	8,457	140.3	7.0
Jackson	11,166	106.9	7.4	Baraga	8,302	110.4	7.7
Berrien	11,149	105.8	8.5	Crawford	8,242	141.3	9.5
St. Joseph	10,745	123.4	9.4	Clare	8,228	124.6	7.9
Emmet	10,719	129.8	6.7	Gladwin	8,227	123.4	8.3
Allegan	10,519	140.9	11.1	Houghton	8,225	133.1	5.2
Muskegon	10,498	116.0	9.6	Chippewa	8,216	120.3	7.4
Gratiot	10,428	95.8	9.5	Keweenaw	8,137	105.9	5.4
Branch	10,389	133.2	6.1	Osceola	8,087	107.6	9.9
Barry	10,347	135.6	10.5	Missaukee	7,813	116.2	12.4
Tuscola	10,316	100.5	10.5	Ogemaw	7,709	117.2	8.1
Hillsdale	10,296	120.7	12.2	Ontonagon	7,309	80.0	2.8
Luce	10,276	150.2	6.3	Oscoda	7,272	126.0	9.4
Sanilac	10,071	117.3	13.1	Mecosta	7,254	139.5	8.5
Otsego	10,070	148.3	10.5	Lake	7,109	109.2	9.0
Iron	9,999	143.5	6.2				
Menominee	9,948	139.8	11.7	Michigan	12,621	122.2	9.9
Ionia	9,921	137.1	8.7	United States	12,772	134.4	9.3

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-6. DIVIDENDS, INTEREST, AND RENT PER CAPITA, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO DIVIDENDS, INTEREST, AND RENT AS A PERCENTAGE OF TOTAL PERSONAL INCOME: 1984

County	Percentage	Per capita	County	Percentage	Per capita
Roscommon	31.3	284	Midland	18.6	247
Leelanau	29.7	344	Oakland	18.4	329
Montmorency	29.3	247	St. Joseph	18.4	198
Alcona	28.1	242	Lenawee	18.4	209
Oscoda	27.9	203	Wexford	18.3	165
Antrim	27.5	259	Mecosta	18.2	132
Huron	27.5	309	Gratiot	18.0	187
Benzie	26.7	255	Branch	17.9	186
Crawford	26.6	220	Jackson	17.9	200
Emmet	26.4	283	Isabella	17.8	158
Manistee	24.0	235	Baraga	17.8	148
Sanilac	24.0	242	Barry	17.5	181
Gogebic	23.9	212	Saginaw	17.5	201
Missaukee	23.9	186	Kent	17.5	217
Cheboygan	23.9	204	Kalamazoo	17.4	224
Ogemaw	23.7	183	Hillsdale	17.3	178
Presque Isle	23.4	204	Alger	17.2	151
Mason	23.2	212	Ottawa	17.1	208
Otsego	22.9	231	Van Buren	16.9	164
Mackinac	22.5	216	Newaygo	16.8	152
Arenac	22.4	196	St. Clair	16.6	202
Houghton	22.1	182	Calhoun	16.4	193
Grand Traverse	21.6	263	Montcalm	16.4	157
Keweenaw	21.4	172	Allegan	16.3	171
Dickinson	21.3	242	Washtenaw	16.1	237
Charlevoix	21.3	209	Macomb	15.8	229
Oceana	21.1	183	Cass	15.7	181
Ontonagon	20.9	153	Ionia	15.3	152
Lake	20.9	149	Marquette	15.3	148
Schoolcraft	20.7	184	Ingham	15.1	186
Iosco	20.5	183	Luce	15.1	154
Clare	20.4	169	Monroe	15.1	184
Iron	20.3	203	Clinton	15.1	179
Kalkaska	19.9	178	Eaton	14.9	190
Bay	19.3	218	Muskegon	14.9	156
Gladwin	19.3	159	Livingston	14.7	195
Alpena	19.2	188	Wayne	14.6	180
Osceola	19.2	155	Shiawassee	14.5	168
Menominee	19.1	190	Lapeer	13.8	159
Chippewa	18.8	155	Genesee	13.4	177
Berrien	18.7	209			
Delta	18.7	174	Michigan	16.6	210
Tuscola	18.6	192	United States	19.0	243

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-3. TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984 (cont.)

(In millions of dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Gladwin	74.4	86.6	106.3	122.4	130.3	141.7	150.0	158.8	175.1
Gogebic	103.3	107.5	115.3	125.4	134.7	145.9	157.6	164.4	171.3
Grand Traverse	293.4	341.3	397.5	450.5	494.2	541.8	568.4	613.8	695.9
Gratiot	233.2	253.6	276.5	305.5	328.4	348.7	365.3	374.7	413.8
Hillsdale	217.5	248.2	274.5	305.8	316.5	351.0	361.6	380.6	429.1
Houghton	165.5	182.3	198.6	216.7	241.3	266.2	275.2	295.6	313.4
Huron	198.2	219.2	238.5	264.1	294.5	319.6	333.3	345.6	404.5
Ingham	1,822.4	2,043.7	2,162.0	2,389.2	2,629.3	2,844.9	2,868.1	3,095.7	3,335.3
Ionia	238.0	266.4	330.8	369.5	405.2	433.2	441.3	474.3	519.6
Iosco	145.0	155.5	168.8	185.1	198.1	215.1	231.2	250.7	269.9
Iron	70.0	77.0	83.6	93.4	100.9	113.8	119.7	129.0	140.1
Isabella	224.2	248.7	295.5	332.3	355.5	398.5	416.2	445.4	482.9
Jackson	913.9	1,016.6	1,148.3	1,263.2	1,330.4	1,437.4	1,460.8	1,522.4	1,622.6
Kalamazoo	1,370.6	1,535.0	1,711.5	1,909.1	2,094.8	2,292.0	2,358.8	2,534.7	2,758.7
Kalkaska	44.0	50.9	59.5	66.6	71.8	84.4	88.0	92.9	103.2
Kent	2,712.0	3,044.2	3,437.1	3,892.6	4,192.4	4,596.8	4,790.0	5,150.6	5,747.6
Keweenaw	9.6	9.7	10.7	11.8	13.1	14.2	14.8	15.7	16.9
Lake	27.6	30.8	34.8	38.9	42.0	47.0	51.0	54.2	59.9
Lapeer	342.5	420.1	520.9	596.3	627.4	655.8	668.4	725.2	795.1
Leelanau	67.7	82.0	104.2	113.1	116.0	131.0	139.3	148.0	166.8
Lenawee	525.0	601.9	673.5	748.6	786.0	847.0	867.1	915.8	1,002.7
Livingston	494.9	585.2	818.7	965.5	1,021.9	1,069.8	1,110.6	1,195.2	1,337.5
Luce	37.7	41.7	40.6	44.4	49.5	52.5	54.7	57.8	61.3
Mackinac	50.1	54.9	61.8	67.7	72.9	81.9	85.8	90.5	98.1
Macomb	4,962.7	5,783.0	6,514.1	7,203.2	7,544.9	8,026.6	8,248.6	8,925.6	9,948.3

TABLE VI-3. TOTAL PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984 (cont.)

(In millions of dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Sanilac	198.7	224.4	270.3	300.3	325.4	347.6	348.0	353.6	404.1
Schoolcraft	40.0	44.5	48.4	54.0	58.9	63.2	68.5	71.9	75.4
Shiawassee	412.4	468.8	538.9	601.3	623.6	661.5	682.1	718.9	796.5
Tuscola	307.4	352.1	380.1	423.0	445.1	481.5	494.0	516.0	570.2
Van Buren	329.2	372.0	421.5	465.8	495.6	544.8	560.4	601.3	645.4
Washtenaw	1,750.8	1,993.7	2,425.1	2,727.6	2,985.5	3,146.5	3,207.0	3,434.8	3,834.3
Wayne	17,881.9	19,723.6	20,514.8	21,954.1	23,261.1	23,857.3	23,741.2	24,595.0	26,895.2
Wexford	114.6	131.9	141.0	156.4	173.5	190.6	197.9	211.4	235.6
Michigan	61,324.4	69,290.7	77,528.1	85,447.7	90,681.3	96,250.9	97,922.5	103,908.6	114,534.5
United States	1,385,201	1,534,708	1,726,185	1,942,655	2,156,715	2,420,098	2,575,793	2,733,579	3,016,317
Metropolitan Statistical Area									
Ann Arbor	1,750.8	1,993.7	2,425.1	2,727.6	2,985.5	3,146.5	3,207.0	3,434.8	3,834.3
Battle Creek	955.6	1,043.9	1,140.2	1,252.0	1,328.9	1,432.6	1,470.1	1,519.5	1,616.2
Benton Harbor	1,032.9	1,160.5	1,270.7	1,375.0	1,446.9	1,564.1	1,599.2	1,675.0	1,817.7
Detroit	33,584.1	37,986.6	42,333.6	46,324.6	48,760.0	50,855.0	51,468.6	54,400.6	60,173.6
Flint	3,143.6	3,623.2	3,965.8	4,325.8	4,577.0	4,911.0	4,766.4	5,167.1	5,722.4
Grand Rapids	3,564.2	4,038.3	4,586.9	5,213.6	5,605.0	6,152.5	6,429.2	6,942.0	7,757.8
Jackson	913.9	1,016.6	1,148.3	1,263.2	1,330.4	1,437.4	1,460.8	1,522.4	1,622.6
Kalamazoo	1,370.6	1,535.0	1,711.5	1,909.1	2,094.8	2,292.0	2,358.8	2,534.7	2,758.7
Lansing-East Lansing	2,605.3	2,956.5	3,275.5	3,661.1	3,959.6	4,289.7	4,397.6	4,753.8	5,130.1
Muskegon	891.6	980.9	1,089.0	1,209.0	1,293.9	1,392.9	1,426.0	1,480.7	1,634.3
Saginaw-Bay City-Midland	2,730.8	3,097.4	3,362.1	3,675.9	3,917.4	4,199.8	4,207.6	4,470.8	4,842.4

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-4. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984

(In dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Alcona	4,225	4,646	5,384	5,977	6,397	7,113	7,491	7,908	8,646
Alger	4,303	4,650	5,534	6,001	6,577	7,012	7,441	7,975	8,750
Allegan	4,958	5,561	6,750	7,565	7,794	8,514	8,808	9,468	10,519
Alpena	5,319	5,870	6,573	7,190	7,735	8,202	8,301	9,016	9,775
Antrim	4,762	5,457	6,079	6,796	7,381	8,060	8,200	8,488	9,421
Arenac	4,840	5,353	5,914	6,388	6,675	7,387	7,586	7,983	8,755
Baraga	4,851	5,113	5,729	6,265	6,865	7,296	7,445	7,706	8,302
Barry	5,098	5,650	6,728	7,421	7,673	8,566	8,866	9,365	10,347
Bay	6,107	6,893	7,584	8,375	8,909	9,609	9,913	10,416	11,271
Benzie	4,773	5,425	6,144	6,556	6,805	7,608	8,211	8,567	9,504
Berrien	5,907	6,636	7,327	7,919	8,474	9,250	9,663	10,280	11,149
Branch	5,536	6,412	7,149	7,858	8,187	8,945	9,128	9,791	10,389
Calhoun	6,713	7,312	7,948	8,796	9,418	10,217	10,550	11,014	11,729
Cass	5,712	6,252	7,017	7,722	7,889	8,428	9,235	10,124	11,476
Charlevoix	5,140	5,809	6,649	7,265	7,756	8,305	8,739	9,086	9,810
Cheboygan	4,750	5,293	5,866	6,545	7,036	7,425	7,690	8,018	8,558
Chippewa	4,457	4,495	5,270	5,767	6,498	6,980	7,269	7,651	8,216
Clare	4,401	5,029	5,555	6,078	6,227	6,865	7,195	7,625	8,228
Clinton	5,679	6,335	7,463	8,313	8,691	9,537	10,208	11,042	11,885
Crawford	4,443	4,828	5,366	5,728	6,277	6,932	7,220	7,530	8,242
Delta	5,139	5,509	5,990	6,628	7,294	8,091	8,574	8,785	9,352
Dickinson	6,062	6,730	7,371	8,246	8,890	9,390	10,030	10,755	11,381
Eaton	5,986	6,857	8,194	9,144	9,528	10,379	10,968	11,926	12,742
Emmet	5,518	6,152	6,820	7,559	8,278	8,903	9,321	10,050	10,719
Genesee	7,066	8,114	8,821	9,590	10,171	10,990	10,826	11,862	13,181

TABLE VI-4. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984 (cont.)

(In dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Gladwin	4,241	4,792	5,679	6,155	6,479	6,973	7,336	7,597	8,227
Gogebic	4,913	5,157	5,613	6,180	6,894	7,490	8,059	8,515	8,867
Grand Traverse	6,152	6,916	7,748	8,417	8,929	9,686	10,111	10,875	12,201
Gratiot	5,824	6,303	6,880	7,576	8,122	8,694	9,263	9,526	10,428
Hillsdale	5,332	6,047	6,609	7,403	7,519	8,397	8,713	9,178	10,296
Houghton	4,279	4,685	5,185	5,683	6,391	7,005	7,253	7,815	8,225
Huron	5,436	6,004	6,501	7,187	8,096	8,778	9,193	9,596	11,235
Ingham	6,824	7,651	8,034	8,867	9,647	10,326	10,560	11,486	12,277
Ionia	4,828	5,314	6,522	7,169	7,807	8,356	8,502	9,128	9,921
Iosco	5,157	5,393	5,859	6,414	7,014	7,594	7,981	8,423	8,927
Iron	4,981	5,470	5,951	6,667	7,439	8,348	8,793	9,416	9,999
Isabella	4,387	4,722	5,484	6,075	6,575	7,435	7,786	8,248	8,849
Jackson	6,154	6,764	7,579	8,322	8,793	9,610	9,839	10,395	11,166
Kalamazoo	6,656	7,398	8,187	9,079	9,854	10,764	11,022	11,907	12,817
Kalkaska	4,302	5,197	6,324	6,213	6,435	7,659	7,882	8,200	8,971
Kent	6,398	7,117	7,960	8,883	9,405	10,252	10,600	11,323	12,448
Keweenaw	4,599	4,685	5,355	5,994	6,695	7,344	7,332	7,718	8,137
Lake	3,851	4,121	4,603	4,939	5,440	5,901	6,262	6,524	7,109
Lapeer	5,454	6,534	7,829	8,640	8,906	9,370	9,614	10,530	11,516
Leelanau	5,231	6,188	7,699	7,922	8,250	9,235	9,701	10,405	11,601
Lenawee	5,939	6,782	7,488	8,263	8,749	9,454	9,795	10,431	11,369
Livingston	6,199	6,907	9,018	9,986	10,067	10,626	11,087	11,990	13,291
Luce	5,364	5,924	5,836	6,453	7,493	8,200	8,889	9,669	10,276
Mackinac	4,870	5,298	5,896	6,586	7,202	8,045	8,448	8,992	9,583
Macomb	7,500	8,603	9,566	10,445	10,846	11,595	11,996	13,041	14,498

TABLE VI-4. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984 (cont.)

(In dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Manistee	4,937	5,621	6,370	6,971	7,464	8,189	8,396	9,082	9,772
Marquette	5,474	5,779	6,575	7,193	7,751	8,414	8,539	8,923	9,645
Mason	4,824	5,334	6,070	6,683	6,988	7,652	7,756	8,288	9,142
Mecosta	3,552	3,915	4,466	4,948	5,582	5,864	6,119	6,685	7,254
Menominee	4,876	5,319	6,019	6,676	7,219	7,941	8,422	8,906	9,948
Midland	6,969	7,701	8,529	9,377	10,052	11,107	11,402	12,239	13,269
Missaukee	4,180	4,421	5,189	5,634	5,979	6,463	6,624	6,953	7,813
Monroe	6,178	6,995	7,717	8,520	8,953	9,621	10,246	11,204	12,226
Montcalm	5,063	5,654	6,136	6,654	7,491	8,227	8,398	8,919	9,607
Montmorency	4,299	4,882	5,640	6,183	6,658	7,201	7,810	7,905	8,457
Muskegon	5,665	6,228	6,925	7,649	8,219	8,872	9,175	9,578	10,498
Newaygo	4,590	4,967	5,845	6,456	6,665	7,293	7,726	8,181	9,054
Oakland	8,667	9,891	11,874	13,119	13,648	14,497	14,944	16,031	17,837
Oceana	4,373	4,985	5,791	6,253	6,600	7,226	7,697	7,963	8,662
Ogemaw	4,261	4,744	5,118	5,685	6,034	6,493	6,822	7,131	7,709
Ontonagon	4,309	4,649	4,946	5,532	6,557	7,372	7,175	7,112	7,309
Osceola	4,055	4,510	4,946	5,519	6,163	6,563	6,923	7,359	8,087
Oscoda	3,924	4,197	4,965	5,394	5,515	5,917	6,252	6,650	7,272
Otsego	5,374	6,050	6,744	7,359	7,849	8,557	8,595	9,111	10,070
Ottawa	5,980	6,820	7,665	8,554	8,941	9,799	10,252	11,111	12,208
Presque Isle	4,400	4,866	5,328	5,863	6,379	7,214	7,605	7,837	8,694
Roscommon	4,519	4,995	5,812	6,349	7,060	7,714	8,027	8,461	9,056
Saginaw	6,685	7,555	8,028	8,715	9,269	9,847	9,837	10,635	11,495
St. Clair	5,823	6,545	8,025	8,783	9,207	9,872	10,238	11,011	12,120
St. Joseph	5,761	6,361	7,070	7,778	8,256	8,911	9,244	9,821	10,745

TABLE VI-4. PER CAPITA PERSONAL INCOME IN MICHIGAN COUNTIES AND METROPOLITAN STATISTICAL AREAS: 1976-1984 (cont.)

(In dollars)

County	1976	1977	1978	1979	1980	1981	1982	1983	1984
Sanilac	5,006	5,637	6,708	7,416	7,975	8,571	8,705	8,908	10,071
Schoolcraft	4,572	5,036	5,426	6,219	6,923	7,411	8,046	8,466	8,921
Shiawassee	5,985	6,751	7,652	8,423	8,764	9,358	9,804	10,456	11,613
Tuscola	5,659	6,410	6,817	7,516	7,801	8,496	8,854	9,338	10,316
Van Buren	5,168	5,762	6,470	7,058	7,401	8,219	8,444	9,064	9,700
Washtenaw	6,895	7,745	9,335	10,376	11,261	11,973	12,294	13,219	14,670
Wayne	7,264	8,161	8,606	9,330	9,993	10,380	10,588	11,163	12,303
Wexford	4,933	5,538	5,806	6,299	6,890	7,477	7,717	8,217	9,008
Michigan	6,726	7,567	8,425	9,239	9,798	10,451	10,742	11,481	12,621
United States	6,367	6,984	7,772	8,651	9,494	10,544	11,113	11,681	12,772
					Metropolitan Statistical Area				
Ann Arbor	6,895	7,745	9,335	10,376	11,261	11,973	12,294	13,219	14,670
Battle Creek	6,713	7,312	7,948	8,796	9,418	10,217	10,550	11,014	11,729
Benton Harbor	5,907	6,636	7,327	7,919	8,474	9,250	9,663	10,280	11,149
Detroit[a]	7,482	8,475	9,430	10,315	10,880	11,454	11,781	12,589	13,943
Flint	7,066	8,114	8,821	9,590	10,171	10,990	10,826	11,862	13,181
Grand Rapids	6,293	7,042	7,884	8,797	9,284	10,134	10,509	11,267	12,385
Jackson	6,154	6,764	7,579	8,322	8,793	9,610	9,839	10,395	11,166
Kalamazoo	6,656	7,398	8,187	9,079	9,854	10,764	11,022	11,907	12,817
Lansing-East Lansing	6,504	7,311	7,990	8,851	9,493	10,233	10,600	11,520	12,325
Muskegon	5,665	6,228	6,925	7,649	8,219	8,872	9,175	9,578	10,498
Saginaw-Bay City-Midland	6,564	7,388	7,985	8,732	9,304	10,001	10,137	10,863	11,757

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

a. Monroe County data not included for years 1976 and 1977.

TABLE VI-7. GROWTH IN TOTAL PERSONAL INCOME, 1974-1984, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO GROWTH IN TOTAL PERSONAL INCOME: 1983-1984

County	Percentage change		County	Percentage change	
	1974-1984	1983-1984		1974-1984	1983-1984
Huron	110	17	Monroe	145	10
Sanilac	125	14	Lenawee	125	9
Missaukee	178	14	Wayne	70	9
Cass	146	13	Oceana	130	9
Grand Traverse	203	13	Alcona	197	9
Allegan	180	13	Kalamazoo	143	9
Leelanau	173	13	Dickinson	138	9
Hillsdale	130	13	Alger	154	9
Newaygo	171	12	Iron	152	9
Ottawa	181	12	Eaton	201	9
Oakland	158	12	Alpena	119	9
Menominee	151	12	Marquette	126	9
Antrim	159	12	Berrien	95	9
Livingston	256	12	Crawford	197	9
Barry	166	12	Isabella	150	8
Washtenaw	173	12	Mackinac	143	8
Kent	146	12	Bay	116	8
Otsego	194	11	Emmet	157	8
Macomb	144	11	Oscoda	173	8
Wexford	156	11	Chippewa	76	8
St. Joseph	148	11	Charlevoix	147	8
Mason	131	11	Manistee	153	8
Kalkaska	259	11	Ingham	131	8
Presque Isle	133	11	Clinton	159	8
Shiawassee	130	11	Iosco	127	8
Osceola	144	11	Saginaw	106	8
Genesee	134	11	Montmorency	179	8
St. Clair	161	11	Van Buren	127	7
Lake	158	11	Keweenaw	114	7
Benzie	158	11	Baraga	120	7
Tuscola	110	11	Jackson	105	7
Gratiot	93	10	Cheboygan	141	7
Muskegon	115	10	Calhoun	107	6
Gladwin	189	10	Branch	127	6
Ogemaw	169	10	Delta	128	6
Mecosta	163	10	Luce	115	6
Arenac	151	10	Houghton	138	6
Midland	156	10	Schoolcraft	140	5
Roscommon	231	10	Gogebic	93	4
Montcalm	142	10	Ontonagon	59	0
Lapeer	184	10			
Clare	176	10	Michigan	121	10
Ionia	160	10	United States	160	10

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-8. GROWTH IN LABOR AND PROPRIETORS' EARNINGS, BY COUNTY IN WHICH EARNED, 1974-1984, AND RANKING OF MICHIGAN COUNTIES ACCORDING TO GROWTH IN LABOR AND PROPRIETORS' EARNINGS, BY COUNTY IN WHICH EARNED: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Huron	61	28	Oceana	67	11
Missaukee	82	24	Saginaw	94	11
Ionia	100	24	Montcalm	115	11
Sanilac	55	23	Oscoda	56	11
Ottawa	179	21	Chippewa	24	10
Hillsdale	103	21	Montmorency	56	10
Alcona	123	19	Wayne	59	10
Cass	113	19	Crawford	117	10
Barry	91	18	Keweenaw	-6	10
Menominee	117	18	Alpena	81	9
Macomb	109	18	Mecosta	105	9
Antrim	74	18	Dickinson	96	9
Grand Traverse	192	18	Alger	87	9
Oakland	168	17	Kalamazoo	131	9
Clinton	116	17	Baraga	65	8
Presque Isle	78	16	Berrien	59	8
Eaton	111	16	Isabella	121	8
Wexford	142	16	Mackinac	106	8
Mason	86	16	Manistee	106	8
Livingston	174	15	Emmet	115	8
Gladwin	111	15	Iosco	86	7
Benzie	110	15	Delta	91	7
Otsego	184	15	Leelanau	38	7
Allegan	122	14	Bay	73	7
Tuscola	52	14	Cheboygan	97	7
Lake	57	14	Van Buren	72	6
Gratiot	58	14	Charlevoix	105	6
Newaygo	112	14	Ingham	147	6
Genesee	128	13	Jackson	68	6
Ogemaw	119	13	Calhoun	77	6
Kalkaska	287	13	Luce	116	6
Shiawassee	77	13	St. Clair	109	5
Muskegon	89	13	Houghton	107	5
St. Joseph	114	13	Branch	89	4
Lenawee	68	12	Gogebic	47	3
Washtenaw	164	12	Schoolcraft	100	2
Kent	138	12	Midland	103	2
Arenac	75	12	Iron	93	0
Osceola	91	11	Ontonagon	-24	-2
Lapeer	107	11	Monroe	100	-7
Roscommon	126	11			
Clare	118	11	Michigan	99	12
Marquette	98	11	United States	139	11

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-9. EARNINGS RESIDENCE ADJUSTMENT FOR MICHIGAN COUNTIES: 1984

(Dollar figures in thousands)

County	Labor and proprietors' earnings, by county in which earned	Residence adjustment	Labor and proprietors' earnings, by county in which received	(a) Proportion
Eaton	249,554	607,289	856,843	0.7088
Livingston	353,452	671,691	1,025,143	0.6552
Clinton	173,340	317,413	490,753	0.6468
Leelanau	35,351	56,394	91,745	0.6147
Lapeer	266,070	315,155	581,225	0.5422
Keweenaw	3,059	3,517	6,576	0.5348
Barry	158,355	171,965	330,320	0.5206
Shiawassee	279,459	279,256	558,715	0.4998
Monroe	591,229	564,626	1,155,855	0.4885
Cass	205,834	180,923	386,757	0.4678
Missaukee	23,617	19,743	43,360	0.4553
Gladwin	50,779	41,502	92,281	0.4497
Oceana	59,544	46,678	106,222	0.4394
Allegan	361,230	263,401	624,631	0.4217
Arenac	41,034	27,502	68,536	0.4013
Newaygo	127,776	81,330	209,106	0.3889
Van Buren	248,839	156,310	405,149	0.3858
Tuscola	225,655	141,651	367,306	0.3856
Oscoda	13,154	8,033	21,187	0.3791
Lake	15,075	8,960	24,035	0.3728
St. Clair	720,807	419,501	1,140,308	0.3679
Alcona	19,858	11,311	31,169	0.3629
Ionia	229,997	122,938	352,935	0.3483
Sanilac	162,819	66,378	229,197	0.2896
Clare	71,908	26,988	98,896	0.2729
Macomb	5,410,758	1,897,600	7,308,358	0.2596
Alger	33,264	11,139	44,403	0.2509
Antrim	59,091	19,018	78,109	0.2435
Bay	667,499	186,400	853,899	0.2183
Lenawee	526,669	137,627	664,296	0.2072
Montmorency	17,173	4,303	21,476	0.2004
Hillsdale	227,103	54,588	281,691	0.1938
Iron	56,461	13,412	69,873	0.1919
Gogebic	63,320	12,929	76,249	0.1696
Menominee	134,087	27,045	161,132	0.1678

TABLE VI-9. EARNINGS RESIDENCE ADJUSTMENT FOR MICHIGAN COUNTIES: 1984 (cont.)

(Dollar figures in thousands)

County	Labor and proprietors' earnings, by county in which earned	Residence adjustment	Labor and proprietors' earnings, by county in which received	(a) Proportion
Mecosta	132,104	26,375	158,479	0.1664
Oakland	10,979,549	1,994,817	12,974,366	0.1538
Ottawa	1,247,508	211,060	1,458,568	0.1447
Baraga	31,670	4,965	36,635	0.1355
Benzie	45,125	6,758	51,883	0.1303
Gratiot	238,389	30,987	269,376	0.1150
Branch	230,713	27,029	257,742	0.1049
Roscommon	49,322	5,709	55,031	0.1037
Isabella	285,985	32,595	318,580	0.1023
Charlevoix	99,663	10,526	110,189	0.0955
St. Joseph	370,783	38,005	408,788	0.0930
Crawford	35,116	2,960	38,076	0.0777
Montcalm	282,704	23,611	306,315	0.0771
Kalkaska	56,739	4,677	61,416	0.0762
Chippewa	118,364	7,475	125,839	0.0594
Jackson	1,010,154	63,553	1,073,707	0.0592
Presque Isle	59,389	2,793	62,182	0.0449
Cheboygan	84,900	3,797	88,697	0.0428
Ogemaw	58,748	2,457	61,205	0.0401
Huron	208,182	8,445	216,627	0.0390
Houghton	156,403	4,228	160,631	0.0263
Osceola	88,065	1,719	89,784	0.0191
Berrien	1,142,167	20,373	1,162,540	0.0175
Mackinac	50,428	756	51,184	0.0148
Manistee	113,855	1,244	115,099	0.0108
Schoolcraft	37,610	141	37,751	0.0037
Mason	134,774	-284	134,490	-0.0021
Delta	215,421	-2,519	212,902	-0.0117
Dickinson	178,789	-3,572	175,217	-0.0200
Midland	728,863	-15,161	713,702	-0.0208
Marquette	480,126	-11,388	468,738	-0.0237
Muskegon	1,117,118	-28,300	1,088,818	-0.0253
Iosco	157,763	-6,462	151,301	-0.0410
Calhoun	1,106,658	-45,625	1,061,033	-0.0412
Alpena	186,029	-10,481	175,548	-0.0563

TABLE VI-9. EARNINGS RESIDENCE ADJUSTMENT FOR MICHIGAN COUNTIES: 1984 (cont.)

(Dollar figures in thousands)

County	Labor and proprietors' earnings, by county in which earned	Residence adjustment	Labor and proprietors' earnings, by county in which received	(a) Proportion
Emmet	148,921	-10,733	138,188	-0.0721
Kalamazoo	2,116,097	-191,586	1,924,511	-0.0905
Genesee	4,660,153	-512,301	4,147,852	-0.1099
Otsego	101,443	-12,024	89,419	-0.1185
Kent	4,640,512	-623,870	4,016,642	-0.1344
Saginaw	1,967,616	-298,912	1,668,704	-0.1519
Grand Traverse	521,810	-81,718	440,092	-0.1566
Washtenaw	3,378,725	-574,636	2,804,089	-0.1701
Wexford	168,654	-29,654	139,000	-0.1758
Ontonagon	40,680	-8,301	32,379	-0.2041
Wayne	22,960,729	-5,061,705	17,899,024	-0.2205
Luce	45,898	-12,400	33,498	-0.2702
Ingham	3,591,023	-1,260,293	2,330,730	-0.3510
Michigan	77,744,658	709,646	78,454,304	0.0090
United States	2,026,114,000	-510,000	2,025,604,000	-0.0003

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

a. Residence Adjustment as percentage of labor and proprietors's earnings received (where positive) or generated (where negative).

TABLE VI-10. RANKING OF MICHIGAN COUNTIES ACCORDING TO NONFARM PROPRIETORS' EARNINGS AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

County	Percentage		County	Percentage	
	1983	1984		1983	1984
Montmorency	20.02	20.64	Houghton	4.89	5.40
Lake	19.56	19.49	Bay	4.88	5.36
Oscoda	15.04	15.63	Kalkaska	5.28	5.34
Alcona	16.05	15.54	Cass	5.42	5.23
Keweenaw	12.25	12.76	Isabella	4.83	5.17
Leelanau	10.40	11.18	Delta	4.77	5.10
Mackinac	9.72	10.57	St. Clair	4.61	5.06
Clare	9.44	9.70	Ottawa	5.15	4.96
Gladwin	9.57	9.60	Monroe	3.98	4.91
Missaukee	10.22	9.30	Lapeer	4.74	4.88
Cheboygan	8.11	8.96	Mason	4.81	4.81
Gogebic	7.79	8.85	Montcalm	4.60	4.72
Roscommon	8.09	8.49	Grand Traverse	4.73	4.63
Iron	7.27	8.47	Allegan	4.59	4.62
Benzie	7.89	7.89	Dickinson	4.31	4.57
Baraga	7.34	7.81	Ionia	4.90	4.57
Crawford	6.93	7.73	Berrien	4.24	4.49
Antrim	8.01	7.70	Menominee	4.60	4.47
Chippewa	6.93	7.50	Alpena	4.15	4.40
Oceana	7.30	7.50	Luce	4.03	4.36
Alger	6.81	7.43	Branch	3.94	4.34
Otsego	7.41	7.42	Lenawee	4.28	4.34
Ogemaw	6.99	7.13	Iosco	3.72	4.08
Newaygo	6.86	6.83	Hillsdale	4.23	4.08
Barry	6.89	6.70	Ontonagon	3.47	4.05
Schoolcraft	5.93	6.68	Gratiot	3.90	3.90
Eaton	6.50	6.45	Kent	3.76	3.89
Livingston	6.40	6.42	Macomb	3.77	3.77
Presque Isle	6.51	6.42	Jackson	3.42	3.73
Arenac	6.09	6.41	Muskegon	3.63	3.73
Mecosta	6.15	6.38	St. Joseph	3.51	3.56
Tuscola	6.31	6.34	Saginaw	3.14	3.28
Oakland	6.32	6.32	Kalamazoo	3.00	3.26
Charlevoix	5.61	6.04	Marquette	3.06	3.17
Wexford	6.05	6.00	Calhoun	2.85	3.12
Osceola	5.93	5.99	Ingham	2.28	2.51
Clinton	5.81	5.81	Washtenaw	2.40	2.48
Emmet	5.47	5.80	Midland	2.18	2.47
Van Buren	5.38	5.78	Genesee	2.19	2.25
Sanilac	6.22	5.75	Wayne	1.94	2.07
Manistee	5.27	5.58			
Huron	6.15	5.46	Michigan	3.51	3.66
Shiawassee	5.35	5.40	United States	5.55	5.85

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VI-11. MEDIAN EARNINGS OF MICHIGAN WOMEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980

Occupation groups and selected occupations	Earnings[a]			
	Spanish origin	Black	White	Total
Salaried managers, manufacturing	$20,062	$17,636	$15,989	$16,078
Accountants and auditors	9,786	15,195	13,867	14,112
All executive, administrative and managerial occupations	11,672	15,559	13,308	13,518
Mechanical engineers	25,462	20,728	21,135	21,319
All engineers	19,413	20,191	19,778	20,085
Physicians	23,522	19,230	21,045	23,146
Registered nurses	16,808	16,585	15,867	15,975
Teachers, librarians, and counsellors	14,210	16,224	15,443	15,513
Writers, artists, entertainers, and athletes	12,143	15,185	12,002	12,161
All professional specialty occupations	15,856	15,936	15,551	15,638
All managerial and professional specialty occupations	14,451	15,799	14,721	14,982
Licensed practical nurses	12,233	13,256	11,964	12,163
Engineers and science technicians	12,190	14,927	13,148	13,332
All technicians and related support occupations	13,462	13,488	12,751	12,896
Sales representatives, finance and business services	10,550	12,789	12,099	12,125
Sales workers, retail and personal services	9,519	8,774	8,617	8,626
All sales occupations	10,071	9,667	9,623	9,619
Supervisors, administrative support occupations	11,750	16,002	13,853	14,161
Secretaries	10,786	12,178	11,223	11,274
Bookkeepers, accounting, and auditing clerks	11,294	12,220	10,931	10,986
Mail and message distributing occupations	15,329	16,317	15,628	15,825
Traffic, shipping, stock and inventory clerks	10,700	12,857	11,023	11,245
Bank tellers	8,754	9,907	8,717	8,797
Data-entry keyers	12,551	11,880	11,128	11,272
All administrative support occupations, including clerical	10,679	12,469	11,060	11,200
All technical, sales, and administrative support occupations	10,761	12,397	11,004	11,143
Police and detectives, public service	20,053	20,728	18,684	20,211
Guards	6,500	12,226	10,638	10,990
Waiters and food counter workers	3,886	6,405	6,153	6,151
Cooks	6,744	8,668	7,466	7,619
Nursing aides, orderlies and attendants	9,039	9,245	8,640	8,851
Cleaning and building service occupations, excluding household	9,814	9,271	9,217	9,237
Barbers, hairdressers, and cosmetologists	13,086	9,022	8,869	8,880
All service occupations	8,598	9,114	8,142	8,337

TABLE VI-11. MEDIAN EARNINGS OF MICHIGAN WOMEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980 (cont.)

Occupation groups and selected occupations	Earnings[a]			
	Spanish origin	Black	White	Total
Supervisors manufacturing production occupations	$21,487	21,417	15,899	16,489
All precision production, craft, and repair occupations	12,628	14,076	12,293	12,477
Metalworking and plastic working machine operators	14,851	14,503	11,625	11,977
Textile sewing machine operators	13,705	14,907	12,145	12,522
Welders and cutters	10,200	15,426	12,209	12,849
Assemblers	15,450	15,548	12,354	13,054
Truck drivers and driver-sales workers	13,267	13,986	12,505	12,599
Material moving equipment operators	18,424	16,715	12,630	13,235
Freight, stock and material handlers	12,611	15,000	10,087	10,413
Hand packers and packagers	9,381	11,712	10,613	10,716
Laborers, except construction	12,653	12,969	10,694	11,023
All operators, fabricators, and laborers	12,703	14,381	11,295	11,636
TOTAL	11,169	12,521	11,297	11,442

SOURCE: Bureau of the Census, 1980 Census of Population Detailed Population Characteristics, Michigan (Washington, D.C.: 1983), PC80-1-D24, Tables 221 and 222.

[a] Median 1979 earnings among women who worked year-round, full-time.

TABLE VI-12. MEDIAN EARNINGS OF MICHIGAN MEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980

	Earnings[a]			
Occupation groups and selected occupations	Spanish origin	Black	White	Total
Salaried managers, manufacturing	$31,595	$27,689	$32,882	$32,771
Accountants and auditors	20,644	20,867	23,635	23,440
All executive administrative, and managerial occupations	21,863	21,133	25,343	25,133
Mechanical engineers	30,024	26,748	30,682	30,571
All engineers	28,082	25,329	28,285	28,165
Physicians	68,379	38,972	56,761	55,866
Teachers, librarians, and counsellors	21,831	20,083	20,675	20,678
Writers, artists, entertainers and athletes	18,906	17,992	21,747	21,551
All professional specialty occupations	25,652	21,128	24,946	24,851
All managerial and professional specialty occupations	23,712	21,131	25,164	25,019
Engineering and science techicians	20,521	20,076	21,390	21,354
Drafting and surveying	21,899	17,492	20,825	20,764
All technicians and related support occupations	20,188	18,759	20,842	20,776
Sales representatives, finance and business services	20,000	15,318	21,960	21,703
Sales workers, retail and personal services	15,584	13,134	16,180	16,065
All sales occupations	17,680	15,699	19,832	19,635
Supervisors, administrative support occupations	23,704	22,204	23,287	23,182
Mail and message distribution occupations	17,102	17,469	17,370	17,378
Traffic, shipping, stock, and inventory clerks	16,715	17,123	16,926	16,922
All administrative support occupations	17,912	17,402	19,306	19,073
All technical, sales and administrative support occupations	18,180	17,194	19,885	19,670
Police and detectives, public service	20,724	21,911	21,489	21,531
Guards	15,867	15,414	17,384	16,963
Cooks	8,333	10,188	9,323	9,308
Nursing, aids, orderlies, and attendants	13,022	12,328	12,464	12,442
Cleaning and building service occupations	13,029	13,642	13,556	13,550
Barbers, hairdressers and cosmetologists	15,473	9,125	13,796	13,428
All service occupations	13,743	14,663	15,570	15,387
All farming, forestry, and fishing occupations	8,850	12,208	10,677	10,662
Automobile mechanics and body repairers	16,098	17,610	16,831	16,858
Carpenters	16,242	16,559	16,555	16,532
Electricians	21,165	24,282	23,478	23,505
Painters	15,495	15,574	16,946	16,808
Plumbers, pipefitters and steamfitters	20,332	24,174	22,908	22,931

TABLE VI-12. MEDIAN EARNINGS OF MICHIGAN MEN WHO WORKED YEAR-ROUND, FULL-TIME, TOTAL, SPANISH ORIGIN, AND BY WHITE-BLACK RACIAL DESIGNATION: CENSUS 1980 (cont.)

Occupation groups and selected occupations	Earnings[a]			
	Spanish origin	Black	White	Total
Supervisors, manufacturing production occupations	$23,734	$26,160	$25,232	$25,295
Tool and die makers	23,988	23,230	24,317	24,265
Machinists	15,622	20,646	18,586	18,614
All precision production craft, and repair occupations	20,784	21,472	21,376	21,364
Metal working and plastic working machine operators	17,863	18,725	19,394	19,271
Welders and cutters	19,535	17,588	19,048	18,756
Assemblers	17,091	17,297	17,951	17,791
Truck drivers and driver sales workers	19,323	18,241	19,165	19,052
Material moving equipment operators	19,116	17,845	18,605	18,460
Construction laborers	13,352	16,637	15,656	15,729
Freight, stock, and material handlers	15,354	16,749	15,584	15,683
Non-construction laborers	15,574	16,736	15,949	16,046
All operators, fabricators and laborers	17,259	17,601	18,119	18,023
TOTAL	18,288	18,158	20,494	20,345

SOURCE: Bureau of the Census, 1980 Census of Population Detailed Population Characteristics, Michigan (Washington, D.C.: 1983), PC80-1-D24, Tables 221 and 222.

a. Median 1979 earnings among men who worked year-round, full-time.

TABLE VI-13. PER CAPITA MONEY INCOME IN MICHIGAN BY COUNTY: 1979 AND 1983

County	1979	1983	County	1979	1983
Alcona	5,111	6,351	Lake	4,640	5,702
Alger	5,470	6,667	Lapeer	7,089	8,196
Allegan	6,744	8,075	Leelanau	6,815	7,875
Alpena	5,887	6,864	Lenawee	6,957	8,551
Antrim	5,884	6,886	Livingston	8,323	9,612
Arenac	5,497	6,472	Luce	5,301	6,452
Baraga	5,186	5,873	Mackinac	5,274	6,337
Barry	6,965	8,330	Macomb	8,655	10,164
Bay	7,182	8,474	Manistee	6,182	7,347
Benzie	5,632	6,663	Marquette	6,187	7,005
Berrien	6,723	8,112	Mason	6,192	7,330
Branch	6,449	7,777	Mecosta	5,230	6,485
Calhoun	7,211	8,810	Menominee	5,585	6,613
Cass	6,481	7,786	Midland	8,052	10,068
Charlevoix	6,005	6,978	Missaukee	5,151	5,870
Cheboygan	5,449	6,464	Monroe	7,356	8,995
Chippewa	5,346	6,300	Montcalm	5,905	7,392
Clare	5,298	6,381	Montmorency	4,838	5,946
Clinton	7,362	9,171	Muskegon	6,358	7,699
Crawford	5,621	6,819	Newaygo	5,696	6,902
Delta	5,894	7,198	Oakland	10,657	12,392
Dickinson	6,257	7,441	Oceana	5,627	6,467
Eaton	8,076	9,928	Ogemaw	5,001	5,834
Emmet	6,389	7,666	Ontonagon	5,599	6,603
Genesee	7,951	9,542	Osceola	5,252	6,345
Gladwin	5,499	6,681	Oscoda	5,653	5,940
Gogebic	5,184	6,336	Otsego	5,933	7,119
Grand Traverse	6,930	8,160	Ottawa	7,198	8,859
Gratiot	6,042	7,541	Presque Isle	5,522	6,367
Hillsdale	6,121	7,319	Roscommon	5,411	6,679
Houghton	4,970	6,000	Saginaw	7,263	8,539
Huron	5,753	7,019	St. Clair	7,080	8,513
Ingham	7,509	9,381	St. Joseph	6,473	8,073
Ionia	6,100	7,454	Sanilac	5,932	6,966
Iosco	5,367	6,485	Schoolcraft	5,203	6,315
Iron	5,586	6,772	Shiawassee	6,948	8,355
Isabella	5,591	6,930	Tuscola	6,500	7,635
Jackson	7,003	8,378	Van Buren	6,108	7,324
Kalamazoo	7,769	9,695	Washtenaw	8,703	10,637
Kalkaska	5,576	6,629	Wayne	7,608	9,036
Kent	7,522	9,185	Wexford	5,874	7,149
Keweenaw	4,782	5,864	MICHIGAN	7,688	9,175

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

TABLE VI-14. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1983

Place	Income 1979	Income 1983	Place	Income 1979	Income 1983
Addison	6,833	8,460	Beverly Hills	16,015	19,196
Adrian	6,549	8,293	Big Rapids	4,576	5,625
Ahmeek	4,406	5,603	Bingham Farms	23,791	27,978
Akron	5,451	7,000	Birch Run	7,363	8,322
Alanson	4,927	6,114	Birmingham	14,608	17,089
Albion	5,371	6,285	Blissfield	7,275	8,355
Algonac	6,914	8,352	Bloomfield Hills	35,129	40,515
Allegan	6,863	8,177	Bloomingdale	5,547	6,342
Allen	5,983	7,447	Boyne City	5,751	7,033
Allen Park	10,163	11,478	Boyne Falls	5,463	5,964
Alma	5,936	7,503	Breckenridge	6,332	8,320
Almont	7,193	8,335	Breedsville	5,060	6,201
Alpena	6,288	7,305	Bridgman	7,078	8,903
Alpha	4,938	6,039	Brighton	8,688	10,114
Ann Arbor	8,729	10,895	Britton	6,908	8,132
Applegate	4,998	6,349	Bronson	5,737	7,204
Armada	7,738	8,698	Brooklyn	7,179	8,545
Ashley	5,472	7,366	Brown City	5,766	6,092
Athens	6,611	8,061	Buchanan	6,316	7,287
Au Gres	5,927	7,329	Buckley	4,385	5,255
Auburn	7,841	9,363	Burlington	4,661	5,752
Auburn Hills	8,125	9,497	Burr Oak	5,593	6,636
Augusta	6,935	8,785	Burton	7,742	9,099
Bad Axe	6,590	7,810	Byron	6,055	7,929
Baldwin	4,753	6,086	Cadillac	6,005	7,397
Bancroft	5,776	6,436	Caledonia	7,201	8,567
Bangor	4,834	6,175	Calumet	5,106	6,385
Baraga	5,032	5,253	Camden	5,423	6,679
Baroda	6,726	8,082	Capac	6,648	7,489
Barryton	5,287	6,888	Carleton	7,169	8,336
Barton Hills	33,481	39,727	Carney	4,232	4,991
Battle Creek	7,504	9,299	Caro	7,018	8,636
Bay City	6,818	8,225	Carson City	6,734	8,402
Bear Lake	5,414	6,163	Carsonville	5,741	7,438
Beaverton	5,719	6,679	Caseville	4,994	6,365
Belding	5,706	6,988	Casnovia	5,591	6,549
Bellaire	5,490	6,490	Caspian	5,097	6,724
Belleville	10,329	12,092	Cass City	7,584	9,189
Bellevue	6,823	8,245	Cassopolis	5,099	6,213
Benton Harbor	3,766	4,354	Cedar Springs	5,415	6,480
Benzonia	5,598	7,195	Cement City	5,122	6,178
Berkley	8,472	9,967	Center Line	7,881	9,231
Berrien Springs	6,612	8,038	Central Lake	4,782	6,276
Bessemer	5,473	6,721	Centreville	6,176	7,651
Beulah	6,285	7,608	Charlevoix	7,238	8,225

TABLE VI-14. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1983 (cont.)

Place	Income		Place	Income	
	1979	1983		1979	1983
Charlotte	6,721	8,168	Durand	6,726	8,164
Chatham	4,628	5,661	Eagle	6,467	7,971
Cheboygan	5,572	6,352	East Detroit	8,342	9,906
Chelsea	8,481	10,197	East Grand Rapids	13,963	17,822
Chesaning	7,037	8,283	East Jordan	4,933	5,824
Clare	6,271	7,229	East Lake	6,485	8,163
Clarkston	12,073	14,230	East Lansing	6,305	7,849
Clarksville	6,221	7,119	East Tawas	6,150	7,191
Clawson	8,827	10,354	East Rapids	7,394	9,041
Clayton	4,984	6,154	Eau Claire	5,682	6,137
Clifford	4,970	5,206	Ecorse	6,826	7,668
Climax	6,647	8,040	Edmore	5,896	6,950
Clinton	7,796	10,089	Edwardsburg	6,477	7,678
Clio	7,210	8,656	Elberta	4,782	5,032
Coldwater	6,907	8,492	Elk Rapids	6,842	7,499
Coleman	5,426	6,424	Elkton	5,563	7,036
Coloma	6,893	8,341	Ells Worth	4,971	5,651
Colon	6,152	7,581	Elsie	6,973	8,875
Columbiaville	6,278	7,738	Emmet	5,277	6,251
Concord	6,369	7,359	Empire	6,328	7,976
Constantine	5,791	7,660	Escanaba	6,396	7,850
Coopersville	6,721	7,823	Essexville	7,666	9,032
Copemish	3,408	4,235	Estral Beach	6,761	8,019
Copper City	3,849	4,979	Evart	5,320	6,439
Corunna	6,519	7,732	Fairgrove	6,944	8,404
Croswell	5,592	6,826	Farmington	11,578	13,701
Crystal Falls	5,443	6,685	Farmington Hills	12,632	14,634
Custer	4,393	4,859	Farwell	5,253	5,856
Daggett	5,108	5,773	Fennville	5,196	6,413
Dansville	6,848	7,859	Fenton	7,787	9,314
Davison	8,276	9,949	Ferndale	7,787	8,797
De Tour	5,038	6,179	Perrysburg	8,178	9,235
De Witt	8,068	9,676	Fife Lake	4,477	5,143
Dearborn	9,852	11,224	Flat Rock	8,054	8,792
Dearborn Heights	9,488	10,806	Flint	7,093	8,725
Decatur	5,114	6,114	Flushing	9,513	11,310
Deckerville	5,812	7,367	Forestville	5,867	7,391
Deerfield	7,054	8,825	Fountain	4,485	5,445
Detroit	6,214	7,644	Fowler	6,711	8,247
Dexter	8,267	9,969	Fowlerville	6,280	7,111
Dimondale	8,150	9,924	Frankenmuth	10,018	11,406
Douglas	6,887	8,765	Frankfort	6,339	7,668
Dowagiac	5,344	6,635	Franklin	25,406	29,371
Dryden	6,605	7,614	Fraser	7,962	9,366
Dundee	7,803	9,822	Free Soil	6,389	7,999

TABLE VI-14. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1983 (cont.)

Place	Income		Place	Income	
	1979	1983		1979	1983
Freeport	5,911	7,065	Hesperia	5,650	6,993
Fremont	7,037	8,516	Highland Park	5,494	6,758
Fruitport	7,363	8,808	Hillman	5,753	7,195
Gaastra	4,919	6,031	Hillsdale	6,031	7,212
Gagetown	5,194	6,562	Holland	7,313	9,164
Gaines	5,847	6,970	Holly	7,204	8,420
Galesburg	6,224	7,419	Homer	5,828	6,806
Galien	5,961	7,147	Honor	4,110	4,929
Garden	4,953	6,058	Hopkins	6,389	7,624
Garden City	8,310	9,503	Houghton	4,330	5,072
Gaylord	5,733	6,798	Howard City	5,090	6,108
Gibraltar	9,740	10,985	Howell	8,006	9,469
Gladstone	6,028	7,476	Hubbardston	5,502	7,338
Gladwin	5,784	6,881	Hudson	6,149	7,694
Gobles	6,154	7,326	Hudsonville	7,336	9,186
Goodrich	8,393	9,967	Huntington Woods	15,419	17,434
Grand Beach	8,914	10,918	Imlay City	6,718	7,764
Grand Blanc	11,651	13,654	Inkster	6,736	8,071
Grand Haven	7,353	9,032	Ionia	6,909	8,524
Grand Ledge	7,600	9,374	Iron Mountain	6,629	8,086
Grand Rapids	6,691	8,304	Iron River	5,914	6,945
Grandville	8,222	9,694	Ironwood	5,275	6,543
Grant	5,885	7,194	Ishpeming	6,850	7,333
Grass Lake	8,007	9,246	Ithaca	5,926	7,283
Grayling	5,010	5,917	Jackson	6,469	7,903
Greenville	6,635	8,445	Jonesville	7,009	8,281
Grosse Pointe	16,533	19,272	Kalamazoo	6,945	8,792
Grosse Pte Farms	21,685	25,870	Kaleva	6,648	7,843
Grosse Pte Park	12,992	15,751	Kalkaska	5,603	6,350
Grosse Pte Shores	27,860	32,164	Keego Harbor	8,687	9,991
Grosse Pte Woods	13,808	16,906	Kent City	5,727	7,024
Hamtramck	6,399	7,657	Kentwood	8,145	9,873
Hancock	5,487	6,900	Kinde	5,260	6,341
Hanover	6,620	7,716	Kingsford	5,980	6,913
Harbor Beach	5,920	7,518	Kingsley	5,480	6,369
Harbor Springs	6,529	8,020	Kingston	7,357	8,411
Harper Woods	9,392	11,150	Laingsburg	6,148	8,134
Harrietta	6,151	7,767	Lake Angelus	17,301	19,901
Harrison	5,891	7,540	Lake Ann	6,335	7,543
Harrisville	5,911	6,938	Lake City	8,394	9,339
Hart	6,445	7,455	Lake Linden	4,980	6,138
Hartford	5,305	6,308	Lake Odessa	6,516	7,614
Hastings	7,272	8,673	Lake Orion	8,830	10,509
Hazel Park	6,821	7,825	Lakeview	5,472	6,613
Hersey	4,979	5,512	Lakewood Club	4,379	5,123

TABLE VI-14. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1983 (cont.)

	Income			Income	
Place	1979	1983	Place	1979	1983
Lanse	5,360	6,114	Mecosta	4,533	5,839
Lansing	7,280	9,145	Melvin	5,758	6,791
Lapeer	6,533	8,022	Melvindale	8,229	9,177
Lathrup Village	14,693	17,052	Memphis	6,294	7,497
Laurium	5,239	6,575	Mendon	6,094	7,935
Lawrence	5,540	6,394	Menominee	6,437	7,807
Lawton	5,745	6,873	Merrill	6,390	7,562
Le Roy	5,074	7,038	Mesick	5,327	6,157
Lennon	7,728	8,884	Metamora	6,372	7,491
Leonard	6,530	7,583	Michiana	9,221	10,797
Leslie	6,271	7,601	Middleville	6,542	7,866
Lexington	6,557	8,127	Midland	9,549	12,040
Lincoln	6,723	8,124	Milan	8,083	9,735
Lincoln Park	8,277	9,116	Milford	8,364	9,743
Linden	7,966	9,281	Millersburg	3,969	4,746
Litchfield	6,453	7,660	Millington	6,425	7,672
Livonia	9,969	11,526	Minden City	6,532	7,904
Lowell	6,420	8,100	Mineral Hills	4,764	5,965
Ludington	6,511	7,771	Monroe	7,350	9,147
Luna Pier	6,027	7,412	Montague	7,152	7,857
Luther	3,896	4,919	Montgomery	5,735	6,786
Lyons	6,263	7,864	Montrose	7,262	8,520
Mackinac Island	5,872	7,048	Morenci	6,259	7,696
Mackinac City	5,640	7,457	Morley	5,164	6,578
Madison Heights	8,326	9,594	Morrice	5,649	7,265
Mancelona	5,108	6,211	Mount Clemens	7,513	9,067
Manchester	8,337	10,051	Mount Morris	7,371	8,953
Manistee	6,441	7,617	Mount Pleasant	5,221	6,464
Manistique	5,636	6,603	Muir	5,524	6,663
Manton	4,399	5,180	Mulliken	6,851	8,253
Maple Rapids	5,766	7,461	Munising	6,498	8,002
Marcellus	5,738	6,899	Muskegon	5,507	6,843
Marine City	6,233	7,662	Muskegon Heights	4,583	5,751
Marion	4,957	5,664	Nashville	5,812	7,281
Marlette	6,862	7,439	Negaunee	6,826	7,659
Marquette	5,932	7,056	New Baltimore	8,359	9,838
Marshall	7,244	8,863	New Buffalo	6,730	7,967
Martin	6,202	7,171	New Era	6,467	7,588
Marysville	8,473	10,347	New Haven	5,544	6,809
Mason	7,540	9,128	New Lothrop	6,901	8,154
Mattawan	6,380	8,133	Newaygo	6,183	7,473
Maybee	5,660	7,375	Newberry	5,781	6,886
Mayville	7,264	8,293	Niles	6,922	8,166
McBain	4,832	5,396	North Adams	5,654	6,295
McBride	5,849	7,013	North Branch	6,883	8,345

TABLE VI-14. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1983 (cont.)

	Income			Income	
Place	1979	1983	Place	1979	1983
North Muskegon	10,131	12,563	Port Sanilac	6,682	8,467
Northport	6,439	8,068	Portage	8,733	10,910
Northville	10,807	12,619	Portland	6,719	8,311
Norton Shores	8,211	9,964	Posen	3,009	3,930
Norway	6,015	7,267	Potterville	6,790	7,746
Novi	10,585	12,605	Powers	3,804	5,184
Oak Park	8,773	9,939	Prescott	5,120	6,130
Oakley	5,240	6,503	Qunicy	6,043	7,313
Olivet	5,173	6,401	Ravenna	6,324	7,548
Omer	5,750	6,070	Reading	5,495	6,775
Onaway	5,069	6,649	Reed City	5,751	6,880
Onekama	7,383	9,430	Reese	7,598	8,575
Onstead	5,479	6,645	Richland	9,126	11,455
Ontonagon	6,179	7,705	Richmond	7,126	8,020
Orchard Lake	18,621	21,394	River Rouge	6,404	7,299
Ortonville	6,865	8,165	Riverview	9,540	10,428
Otisville	5,729	6,930	Rochester	10,148	11,924
Otsego	6,222	7,504	Rochester Hills	11,014	13,116
Otter Lake	6,592	7,844	Rockford	7,397	9,011
Ovid	5,801	7,229	Rockwood	7,919	9,212
Owendale	4,970	5,891	Rogers City	7,029	7,857
Owosso	6,914	8,326	Romeo	9,280	10,761
Oxford	8,424	9,882	Romulus	6,892	7,700
Parchment	8,498	10,212	Roosevelt Park	8,017	9,730
Parma	7,503	9,161	Roscommon	5,805	6,663
Paw Paw	7,131	8,577	Rose City	3,668	4,301
Peck	5,634	7,059	Rosebush	5,591	6,505
Pellston	4,605	5,779	Roseville	7,539	8,748
Pentwater	6,968	8,331	Rothbury	5,214	5,844
Perrinton	6,208	8,025	Royal Oak	9,766	11,468
Perry	6,221	7,737	Saginaw	6,101	7,309
Petersburg	6,662	8,285	Saline	8,635	10,591
Petoskey	7,069	8,526	Sand Lake	5,687	6,746
Pewamo	6,771	8,698	Sandusky	6,289	7,251
Pierson	4,148	4,958	Sanford	6,702	8,779
Pigeon	6,410	7,666	Saranac	5,688	6,862
Pinckney	6,680	7,913	Saugatuck	9,031	10,946
Pinconning	6,161	7,418	Sault Sainte Marie	5,658	6,840
Plainwell	7,369	8,775	Schoolcraft	7,312	8,620
Pleasant Ridge	10,604	12,828	Scottville	6,106	6,850
Plymouth	9,641	11,312	Sebewaing	5,995	7,480
Pontiac	6,252	7,249	Shelby	6,118	6,976
Port Austin	5,313	7,015	Shepherd	6,217	7,579
Port Hope	5,479	7,164	Sheridan	6,358	7,963
Port Huron	6,735	8,269	Sherwood	4,836	5,391

TABLE VI-14. PER CAPITA MONEY INCOME IN MICHIGAN INCORPORATED PLACES: 1979 AND 1983 (cont.)

	Income			Income	
Place	1979	1983	Place	1979	1983
Shoreham	10,741	12,945	Turner	4,487	5,112
South Haven	6,682	8,467	Tustin	5,380	6,622
South Lyon	8,075	9,348	Twining	4,647	5,788
South Range	4,963	6,422	Ubly	6,055	7,085
South Rockwood	7,550	8,374	Union City	5,966	7,266
Southfield	12,668	14,336	Unionville	6,400	8,146
Southgate	8,978	9,854	Utica	8,099	9,599
Sparta	7,199	8,527	Vandalia	4,478	6,083
Spring Lake	7,586	9,536	Vanderbilt	4,701	5,689
Springfield	7,330	8,956	Vassar	6,708	7,792
Springport	6,226	7,569	Vermontville	6,244	7,287
St. Charles	6,610	7,847	Vernon	6,229	6,985
St. Clair	8,731	10,586	Vicksburg	6,011	7,747
St. Clair Shores	9,191	10,906	Wakefield	4,543	5,351
St. Ignace	5,571	6,818	Waldron	6,134	7,562
St. Johns	7,420	9,080	Walker	7,625	9,243
St. Joseph	9,257	11,722	Walkerville	4,633	5,339
St. Louis	6,049	7,478	Walled Lake	7,930	9,330
Stambaugh	5,963	6,991	Warren	8,690	10,295
Standish	6,875	7,971	Watervliet	6,319	7,596
Stanton	5,658	7,449	Wayland	6,367	7,667
Stanwood	5,416	6,864	Wayne	7,768	8,885
Stephenson	5,106	6,134	Webberville	6,311	7,010
Sterling	5,629	6,741	West Branch	6,237	7,542
Sterling Heights	8,996	10,485	Westland	8,308	9,653
Stevensville	8,160	10,015	Westphalia	6,296	7,775
Stockbridge	7,853	8,902	White Cloud	5,508	6,668
Sturgis	6,900	8,555	White Pigeon	5,920	7,400
Sunfield	5,826	7,172	Whitehall	6,895	8,219
Suttons Bay	6,397	7,300	Whittemore	4,685	5,499
Swartz Creek	8,723	10,243	Williamston	7,502	9,481
Sylvan Lake	11,105	13,565	Wixom	10,065	11,369
Tawas City	5,816	7,045	Wolverine	4,432	5,146
Taylor	7,413	8,372	Wolverine Lake	9,920	11,436
Tecumseh	7,838	9,778	Woodhaven	8,783	9,713
Tekonsha	6,223	7,973	Woodland	5,670	6,979
Thompsonville	3,988	5,011	Wyandotte	7,957	8,888
Three Oaks	6,402	7,413	Wyoming	7,452	8,869
Three Rivers	6,096	7,691	Yale	6,416	7,428
Traverse City	7,032	8,222	Ypsilanti	6,448	8,016
Trenton	9,677	10,804	Zeeland	7,236	9,099
Troy	11,642	13,631	Zilwaukee	7,131	8,371
			MICHIGAN	7,688	9,175

SOURCE: U.S. Department of Commerce, Bureau of the Census, Local Population Estimates--Michigan, (Washington, D.C.: September 1986), Series P-26, No. 82-22-SC, Table 1.

TABLE VI-15. PERCENTAGE OF MICHIGAN PERSONS LIVING IN HOUSEHOLDS WITH INCOME BELOW THE POVERTY LEVEL, BY COUNTY: CENSUS 1970 AND 1980

	Percentage[a]			Percentage[a]	
County	1970	1980	County	1970	1980
Alcona	25.4	16.5	Lake	34.1	24.3
Alger	17.4	12.9	Lapeer	10.3	7.1
Allegan	14.6	8.5	Leelanau	11.8	8.3
Alpena	16.1	10.6	Lenawee	11.2	8.5
Antrim	17.3	10.9	Livingston	7.7	4.8
Arenac	18.2	15.3	Luce	13.0	12.6
Baraga	17.5	12.0	Mackinac	17.8	13.0
Barry	13.4	8.7	Macomb	5.4	4.6
Bay	11.4	9.4	Manistee	19.1	10.7
Benzie	14.0	12.3	Marquette	14.1	9.8
Berrien	14.5	13.5	Mason	14.4	12.1
Branch	15.0	10.7	Mecosta	20.0	18.2
Calhoun	12.4	10.6	Menominee	18.1	9.8
Cass	12.9	11.0	Midland	8.1	8.0
Charlevoix	16.7	11.1	Missaukee	25.1	14.3
Cheboygan	18.9	14.8	Monroe	8.9	7.3
Chippewa	20.2	14.6	Montcalm	16.6	12.0
Clare	21.1	16.0	Montmorency	28.5	20.2
Clinton	7.6	5.7	Muskegon	12.2	12.3
Crawford	17.7	14.0	Newaygo	18.3	13.6
Delta	16.9	11.6	Oakland	6.0	5.3
Dickinson	18.0	8.7	Oceana	22.5	13.3
Eaton	8.3	5.9	Ogemaw	24.5	18.4
Emmet	17.0	10.2	Ontonagon	16.6	12.6
Genesee	9.9	10.6	Osceola	17.9	14.1
Gladwin	15.6	14.7	Oscoda	25.0	15.4
Gogebic	24.1	12.1	Otsego	13.5	9.4
Grand Traverse	11.8	8.3	Ottawa	8.0	6.0
Gratiot	14.0	11.7	Presque Isle	23.3	16.5
Hillsdale	14.6	10.8	Roscommon	22.0	12.9
Houghton	28.6	17.0	Saginaw	11.3	11.7
Huron	18.6	12.4	St. Clair	14.1	9.7
Ingham	11.3	13.2	St. Joseph	13.7	9.7
Ionia	13.5	9.2	Sanilac	19.1	11.6
Iosco	18.2	11.8	Schoolcraft	21.5	13.8
Iron	20.9	11.9	Shiawassee	11.1	7.9
Isabella	20.7	18.9	Tuscola	13.9	9.7
Jackson	11.0	9.3	Van Buren	16.7	13.5
Kalamazoo	10.6	10.7	Washtenaw	10.5	11.0
Kalkaska	27.1	14.4	Wayne	12.3	14.3
Kent	11.1	8.7	Wexford	18.6	12.4
Keweenaw	27.6	13.2	MICHIGAN	9.4	10.4

SOURCE: Bureau of the Census, special release.

a. Based on 1969 and 1979 incomes.

TABLE VI-16. MICHIGAN INCOME AMONG HOUSEHOLDS, FAMILIES AND UNRELATED INDIVIDUALS IN MICHIGAN, BY COUNTY: CENSUS 1980

County	Median household income	Median family income	Median income of unrelated individuals	County	Median household income	Median family income	Median income of unrelated individuals
Alcona	$10,730	$12,301	$ 4,873	Lake	$ 9,134	$11,210	$ 3,998
Alger	14,224	16,354	4,873	Lapeer	21,403	22,984	7,829
Allegan	17,906	20,162	7,291	Leelanau	15,938	17,975	6,898
Alpena	15,166	17,228	4,987	Lenawee	18,537	20,825	6,096
Antrim	14,026	16,174	5,487	Livingston	24,544	26,339	10,091
Arenac	13,184	15,016	5,407	Luce	13,261	15,327	5,481
Baraga	12,007	15,598	4,930	Mackinac	12,454	14,985	5,341
Barry	18,684	20,651	6,776	Macomb	24,222	26,666	10,877
Bay	19,043	22,034	6,572	Manistee	14,351	17,281	5,619
Benzie	13,410	15,435	5,365	Marquette	16,517	19,492	4,718
Berrien	16,274	19,166	6,588	Mason	14,410	16,824	6,020
Branch	16,150	18,535	7,393	Mecosta	13,081	16,023	3,091
Calhoun	17,603	20,789	6,683	Menominee	14,195	16,380	5,372
Cass	16,488	18,548	6,529	Midland	21,527	23,598	6,569
Charlevoix	14,028	16,896	5,610	Missaukee	12,321	13,953	5,242
Cheboygan	13,012	15,203	5,380	Monroe	21,356	23,281	7,889
Chippewa	12,499	14,987	4,110	Montcalm	14,792	16,942	5,771
Clare	11,349	13,231	5,121	Montmorency	10,254	11,995	4,526
Clinton	21,573	23,368	8,505	Muskegon	16,167	18,716	6,669
Crawford	11,832	14,184	5,100	Newaygo	14,082	16,468	5,127
Delta	15,076	17,668	5,223	Oakland	25,325	28,807	11,642
Dickinson	14,293	17,094	5,191	Oceana	14,157	16,334	5,397
Eaton	21,778	24,574	8,957	Ogemaw	10,506	12,270	4,863
Emmet	15,099	18,384	5,881	Ontonagon	13,153	15,984	5,493
Genesee	20,996	23,717	9,078	Osceola	12,970	14,937	5,306
Gladwin	12,255	14,678	5,056	Oscoda	11,175	12,922	5,141
Gogebic	10,973	13,683	4,726	Otsego	15,341	16,941	7,303
Gd. Traverse	16,686	19,325	6,296	Ottawa	20,232	22,059	5,774
Gratiot	15,796	18,334	4,558	Presque Isle	12,491	15,244	4,594
Hillsdale	15,399	17,512	5,032	Roscommon	10,865	12,474	4,683
Houghton	11,456	14,398	3,340	Saginaw	19,726	22,126	7,840
Huron	13,860	16,397	5,946	St. Clair	18,476	21,119	6,887
Ingham	18,090	21,921	4,440	St. Joseph	16,091	18,609	7,493
Ionia	17,439	20,037	6,395	Sanilac	14,590	16,629	5,913
Iosco	11,724	13,649	5,994	Schoolcraft	12,450	14,670	4,643
Iron	11,331	14,532	4,462	Shiawassee	19,722	21,737	7,721
Isabella	15,002	18,318	2,831	Tuscola	18,332	20,583	7,044
Jackson	18,530	21,364	7,104	Van Buren	15,397	17,700	5,963
Kalamazoo	18,634	22,211	5,705	Washtenaw	20,969	25,465	5,331
Kalkaska	13,714	15,691	5,345	Wayne	18,629	22,134	7,774
Kent	18,554	21,530	7,403	Wexford	13,394	15,884	5,705
Keweenaw	9,076	11,705	4,233	MICHIGAN	19,224	22,108	6,979

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer
NOTE: Income data pertain to the year 1979.
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TABLE VI-17. MEDIAN FAMILY INCOME IN MICHIGAN COUNTIES: CENSUS 1970 AND 1980

	Income[a]			Income[a]	
County	1970	1980	County	1970	1980
Alcona	$ 5,842	$12,301	Lake	$ 6,000	$11,210
Alger	8,014	16,354	Lapeer	10,388	22,984
Allegan	9,309	20,162	Leelanau	8,278	17,975
Alpena	8,765	17,228	Lenawee	10,027	20,825
Antrim	8,043	16,174	Livingston	11,551	26,339
Arenac	8,320	15,016	Luce	8,974	15,327
Baraga	8,045	15,598	Mackinac	7,273	14,985
Barry	9,704	20,651	Macomb	13,110	26,666
Bay	10,408	22,034	Manistee	8,365	17,281
Benzie	7,760	15,435	Marquette	8,562	19,492
Barrien	10,056	19,166	Mason	8,476	16,824
Branch	9,325	18,535	Mecosta	7,902	16,023
Calhoun	10,789	20,789	Menominee	7,703	16,380
Cass	9,781	18,548	Midland	11,618	23,598
Charlevoix	8,535	16,896	Missaukee	6,820	13,953
Cheybogan	7,660	15,203	Monroe	11,398	23,281
Chippewa	7,131	14,987	Montcalm	8,526	16,942
Clare	7,547	13,231	Montmorency	5,851	11,995
Clinton	11,014	23,368	Muskegon	9,757	18,716
Crawford	7,930	14,154	Newaygo	8,121	16,468
Delta	8,779	17,668	Oakland	13,826	28,807
Dickinson	8,316	17,094	Oceana	8,000	16,334
Eaton	11,423	24,574	Ogemaw	6,545	12,270
Emmet	8,610	18,384	Ontonagon	8,421	15,984
Genesee	11,255	23,717	Osceola	7,961	14,937
Gladwin	8,157	14,678	Oscoda	6,411	12,922
Gogebic	7,236	13,683	Otsego	9,413	16,941
Grand Traverse	9,542	19,325	Ottawa	10,445	22,059
Gratiot	8,891	18,334	Presque Isle	7,889	15,244
Hillsdale	8,895	17,512	Roscommon	6,895	12,474
Houghton	6,300	14,398	Saginaw	10,878	22,126
Huron	7,785	16,397	St. Clair	10,125	21,119
Ingham	11,193	21,921	St. Joseph	9,686	18,609
Ionia	9,578	20,037	Sanilac	8,583	16,629
Iosco	7,165	13,649	Schoolcraft	7,692	14,670
Iron	7,443	14,532	Shiawassee	10,540	21,737
Isabella	9,207	18,318	Tuscola	9,558	20,583
Jackson	10,726	21,364	Van Buren	8,735	17,700
Kalamazoo	11,037	22,211	Washtenaw	12,294	25,465
Kalkaska	6,686	15,691	Wayne	11,351	22,134
Kent	10,692	21,530	Wexford	8,024	15,884
Keweenaw	4,809	11,705	MICHIGAN	11,032	22,108

SOURCE: Bureau of the Census, special release.

a. Figures pertain to incomes received during 1969 and 1979.

VII. SOCIAL WELFARE

The Michigan Department of Social Services, charged with the responsibility for administering the state's public welfare and related programs, conducts research and functions as the repository of relevant data. Published sources include the Annual Report and the monthly publication, Social Services Statistics.

Information related to other social welfare programs is available from annual reports of the various agencies that administer them, for example, the Social Security Administration, the Veterans Administration, and the Railroad Retirement Board.

Data for Tables VII-1 and VII-2 were drawn from the tabulation released by the Bureau of Economic Analysis in conjunction with its personal income statistics program. A more complete statement of those data is included at the beginning of Chapter VI.

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TABLE VII-1. TRANSFER PAYMENTS IN MICHIGAN AND THE UNITED STATES: 1958-1984

(In millions of dollars)

Year	Michigan	United States	Michigan as a percentage of the United States
1958	1,254	25,978	4.83
1959	1,154	27,064	4.26
1960	1,207	28,940	4.17
1961	1,425	32,817	4.34
1962	1,384	33,770	4.10
1963	1,411	35,838	3.94
1964	1,459	37,430	3.90
1965	1,575	40,414	3.90
1966	1,746	44,667	3.91
1967	2,079	52,595	3.95
1968	2,346	59,920	3.92
1969	2,601	66,650	3.90
1970	3,244	80,149	4.05
1971	3,844	94,435	4.07
1972	4,322	104,681	4.13
1973	4,816	119,512	4.03
1974	5,973	141,221	4.23
1975	7,836	178,308	4.39
1976	8,131	194,273	4.19
1977	8,432	207,897	4.06
1978	8,872	223,844	3.96
1979	10,118	250,260	4.04
1980	13,499	297,570	4.54
1981	14,204	337,250	4.21
1982	15,978	376,052	4.25
1983	16,890	404,968	4.17
1984	17,025	416,725	4.09

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

NOTE: See Table VII-2 for listing of items comprising transfer payments.

TABLE VII-2. TRANSFER PAYMENTS TO INDIVIDUAL CITIZENS IN MICHIGAN AND THE UNITED STATES, BY ITEM: 1983 AND 1984

(In millions of dollars)

Item	Michigan 1983	Michigan 1984	United States 1983	United States 1984
Old Age, Survivors, and Disability Insurance	6,888	7,242	164,362	172,960
Railroad retirement and disability	133	135	6,010	6,058
Federal employees retirement	313	330	21,178	22,105
State and local gov't employees retirement	819	929	22,044	24,730
Medical insurance payments	2,528	2,848	57,651	64,797
Worker's compensation[a]	251	286	4,050	4,575
Other government disability, insurance, and retirement programs[b]	21	21	2,667	2,678
Total government retirement, disability, and insurance programs	10,955	11,791	277,962	297,903
State unemployment insurance compensation	1,657	779	25,488	15,533
Unemployment compensation for federal civilian employees (UCFE)	6	5	241	196
Unemployment compensation for RR employees	16	7	417	188
Unemployment compensation for veterans (UCX)	10	7	184	132
Other unemployment compensation[c]	5	4	76	78
Total unemployment insurance benefit payments	1,694	802	26,406	16,127
Total federal education and training assistance pay (excl. vets)[d]	171	164	5,229	5,313
Supplemental Security Income (SSI) payments	282	320	9,405	10,362
Aid to families with dependent children	1,192	1,205	14,238	14,746
General assistance payments	274	362	2,050	2,329
Food stamps	587	576	11,104	10,701
Other income maintenance[e]	113	98	2,373	2,276
Total income maintenance benefit payments	2,461	2,607	39,170	40,414

TABLE VI-18. CONSUMER PRICE INDEXES FOR ALL URBAN CONSUMERS IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA AND THE URBAN UNITED STATES BY ITEM, ANNUAL AVERAGES: 1981-1985

Items	1981		1982		1983		1984		1985	
	Detroit	United States	Detroit	United States	Detroit	United States	Detroit	United States	Detroit	United States
All items	277.1	272.4	288.3	289.1	296.5	298.4	306.9	311.1	317.6	322.2
Food	264.2	274.6	274.3	285.7	273.7	291.7	279.8	302.9	284.4	284.4
Food at home	265.2	269.9	277.5	279.2	275.6	282.2	281.7	292.6	284.6	296.8
Cereals & bakery products	276.6	271.1	291.5	283.4	299.4	292.5	312.2	305.3	326.7	317.0
Meats, poultry, fish, eggs	250.8	252.8	263.8	262.1	260.8	261.0	264.4	266.6	258.7	263.4
Dairy products	252.5	243.6	257.8	247.0	253.5	250.0	246.3	253.9	245.4	258.0
Fruits and vegetables	20.9	276.3	265.3	291.4	256.6	292.2	276.8	317.4	275.9	325.7
Other foods at home[a]	320.3	254.9	334.3	322.5	334.4	340.0	341.5	352.2	356.9	361.1
Food away from home	272.7	291.0	278.1	306.5	280.4	319.9	286.5	333.4	295.7	346.6
Alcoholic beverages	236.3	199.5	241.5	208.5	246.0	216.5	248.6	222.1	256.9	229.5
Housing	304.6	293.5	314.2	314.7	327.7	323.1	336.9	336.5	350.7	349.9
Shelter	334.2	314.7	339.5	337.0	349.3	344.8	360.0	361.7	376.3	382.0
Rent, residential	206.1	208.2	214.3	224.0	220.2	236.9	228.5	249.3	242.0	264.6
Other rental costs	257.9	293.2	285.4	328.7	312.3	350.6	333.7	373.4	344.0	398.4
Homeowner's costs[a]	359.7	352.7	363.9	376.8	101.6	102.5	103.4	107.3	108.1	113.1
Fuel & utilities	333.6	319.2	366.9	350.8	402.6	370.3	422.2	387.3	443.8	393.6
Fuels	402.5	407.0	440.0	446.2	484.7	469.2	501.9	485.5	527.3	488.1
Oil, coal & bottle gas	711.7	675.9	701.7	667.9	650.3	628.0	664.6	641.8	641.6	619.5
Gas (piped) & electricity	366.8	345.9	408.9	393.8	463.2	428.7	480.7	445.2	510.8	452.7
Hsehld. furnish. & oper.	205.5	221.3	213.3	233.2	217.5	213.7	217.0	222.3	221.0	247.2
Apparel and upkeep	159.1	186.9	162.2	191.8	166.6	196.5	166.3	200.2	169.3	206.0
Men's and boy's	159.2	177.5	163.0	183.9	160.8	183.9	165.7	192.4	166.0	197.9
Women's and girl's	135.5	157.5	132.4	159.1	141.0	161.9	137.7	163.6	143.3	169.5
Footwear	157.0	200.4	157.3	205.5	156.0	206.9	151.3	209.5	155.2	212.1
Transportation	279.7	280.0	291.8	291.5	293.7	298.4	309.0	311.7	317.8	319.9
Private	278.8	277.5	290.9	287.5	291.4	293.9	305.8	306.6	314.6	314.2
Public	298.6	312.0	310.9	346.0	348.1	362.6	385.0	385.0	393.4	402.8
Medical care	320.1	294.5	346.4	328.7	365.5	357.3	403.1	379.5	432.5	403.1
Entertainment	201.9	221.4	212.2	235.8	221.4	246.0	222.8	256.1	233.2	265.0
Other goods and services	229.2	235.7	257.1	259.9	285.7	288.3	297.5	307.7	312.7	326.6
Commodities	244.2	253.6	251.1	263.8	257.3	271.5	263.7	280.7	269.0	286.7
Commodities less food	232.2	241.2	232.9	250.9	246.6	259.0	253.2	267.0	258.5	274.6

SOURCE: Michigan Department of Management and Budget, Economic Report of the Governor (Lansing: annually).

[a] Homeowner's costs (homeownership), break in series beginning December 1982 = 100.

TABLE VII-2. TRANSFER PAYMENTS TO INDIVIDUAL CITIZENS IN MICHIGAN AND THE UNITED STATES, BY ITEM: 1983 AND 1984 (cont.)

(In millions of dollars)

Item	Michigan 1983	Michigan 1984	United States 1983	United States 1984
Vets pension and compensation and military retirement	593	579	29,805	28,930
Educational assistance to Vets, dependents, and survivors[f]	42	36	1,370	1,174
Veterans' life insurance benefit payments	43	41	1,392	1,435
Other assistance to veterans[g]	6	5	192	170
Total veterans benefit payments	685	661	32,759	31,709
Other payments to individuals[h]	3	2	517	356
Total government payments to individuals	15,969	16,027	382,043	391,823
Total business payments to individuals[i]	512	568	12,804	14,200
Total payments to nonprofit institutions	409	430	10,121	10,702

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

a. Compensation to disabled federal and state employees.
b. Includes temporary disability payments, Panama Canal Construction Annuity payments, and black lung payments.
c. Includes trade readjustment allowance payments, redwood park benefit payments, public service employment benefit payments, and trasitional benefit payments.
d. National Science Foundation fellowships; other federal fellowships; subsistence of state marine school cadets; higher education loans-interest subsidy payments; basic education opportunity grants; and Job Corps payments.
e. Includes emergency assistance, refugee assistance, foster home care payments, earned income tax credits, and energy assistance.
f. Includes veterans' readjustment benefit payments and educational assistance to spouses and children of disabled or deceased veterans.
g. Includes payments to paraplegics, payments for autos and conveyance for disabled veterans, veterans' aid, and veterans' bonuses.
h. Includes Bureau of Indian Affairs payments, education exchange payments, Alaska Native Claims Settlement Act payments, compensation of survivors of public safety officers, compensation of victims of crime, and other special payments to individuals.
i. Includes consumer bad debts, personal injury payments to individuals other than employees, and other business transfer payments.

TABLE VII-3. ESTIMATED PROPORTION OF THE POPULATION AGED 65 AND OLDER RECEIVING OASDI CASH BENEFITS AND SSI PAYMENTS: MICHIGAN AND THE UNITED STATES: 1970-1980 AND 1982-1983

	OASDI[a]		SSI[b]		Both	
Year	Michigan	United States	Michigan	United States	Michigan	United States
	Proportion per 1,000[c]					
1970[d]	911	855	45	104	30	63
1971[d]	915	849	53	102	31	62
1972[d]	918	856	52	96	33	61
1973[d]	941	867	48	89	31	56
1974[e]	946	883	61	96	40	68
1975[f]	951	904	63	111	44	78
1976[f]	947	908	56	104	39	73
1977[f]	952	916	62	100	44	70
1978[f]	953	921	60	96	43	67
1979[f]	967	925	59	92	42	64
1980[f]	965	914	54	87	38	62
1982[f]	959	930	46	75	32	52
1983[f]	966	918	44	73	32	51

SOURCE: Social Security Administration, Social Security Bulletin, Annual Statistical Supplement, (Washington, D.C.), Table 168.

a. Old age, survivors, and disability insurance program of the federal government (Social Security).
b. For 1970-1973, data refer to old age assistance program; beginning January 1974, the supplemental security income program superseded the old age assistance program in the 50 states and District of Columbia.
c. Number per 1,000 population aged 65 and over.
d. February data.
e. June data.
f. December data.

TABLE VII-4. AMOUNT OF OASDI CASH BENEFITS PAID IN MICHIGAN AND THE UNITED STATES, BY TYPE OF PROGRAM: 1979-1984

(In millions of dollars)

Program	1979	1980*	1981*	1982*	1983*	1984*
Michigan						
Total cash benefits paid	$ 4,199	$ 5,000	$ 5,850	$ 6,446	$ 6,889	$ 7,273
OASI	3,609	4,327	5,100	5,690	6,122	6,460
DI	590	670	745	754	764	810
Old age & survivors insurance	3,609	4,327	5,100	5,690	6,122	6,460
Monthly benefits	--	--	--	--	--	--
Retired Workers	2,327	2,809	3,340	3,791	4,139	4,397
Dependents	271	322	380	415	444	465
Survivors	1,007	1,196	1,380	1,484	1,540	1,598
Special age-72	4	3	5	6	a	a
Lump sum death payments	--	--	--	--	--	--
Disability insurance:						
Monthly benefits	590	670	745	754	764	810
Disabled workers	484	553	620	641	662	704
Dependents	105	117	125	113	102	107
United States						
Total cash benefits paid	$101,229	$120,427	$140,995	$156,173	$167,033	$175,762
OASI	87,801	104,916	123,685	138,715	149,418	157,791
DI	13,428	15,437	17,200	17,339	17,530	17,900
Old age & survivors insurance	87,801	104,916	123,685	138,715	149,418	157,791
Monthly benefits	87,461	--	--	--	--	--
Retired workers	58,342	70,359	83,615	98,175	103,578	109,957
Dependents	6,374	7,547	8,865	9,755	10,470	10,995
Survivors	22,745	27,010	31,205	33,785	35,369	36,839
Special age-72	131	119	110	119	a	a
Lump sum death payments	340	--	--	--	--	--
Disability insurance:						
Monthly benefits	13,428	15,437	17,200	17,339	17,530	17,900
Disabled workers	11,090	12,817	14,380	14,810	15,196	15,623
Dependents	2,338	2,621	2,820	2,529	2,335	2,277

SOURCE: Social Security Administration, Social Security Bulletin, Statistical Summaries (Washington, D.C.), Table 115.

*: Lump sum death payments are not being separated.

a. Special age-72 payments included in Survivors category of OASI program.

TABLE VII-6. NUMBER AND AVERAGE MONTHLY BENEFITS OF RETIRED WORKERS UNDER OASDI, CURRENT-PAY BENEFITS, MICHIGAN AND THE UNITED STATES: DECEMBER 1973-1983

	Number (In thousands)		Amount	
Year	Michigan	United States	Michigan	United States
1973	585	15,365	180.80	166.42
1974	603	15,959	204.17	188.21
1975[a]	624	16,557	224.42	207.42
1976[a]	643	17,165	243.08	224.86
1977[a]	662	17,832	262.11	242.98
1978[a]	678	18,358	n.a.	263.19
1979[a]	689	18,970	n.a.	294.27
1980[a]	723	19,562	367.82	341.39
1981[a]	n.a.	20,195	n.a.	385.97
1982[a]	771	20,763	451.13	419.25
1983[a]	796	21,419	472.97	440.77

SOURCE: Social Security Administration, Social Security Bulletin, December 1972 through December 1983 (Washington, D.C.), Tables 116 and 108.

a. Not included are retired persons receiving Social Security benefits as part of their Railroad Retirement annuity. As of December 1983, this set equaled an estimated 25,000 retired workers in the United States.
n.a.: not available.

TABLE VII-7. NUMBER OF RECIPIENTS AND AVERAGE MONTHLY CASH BENEFITS PER RECIPIENT UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, MICHIGAN AND THE UNITED STATES: DECEMBER 1973-1983

	Number (In thousands)		Amount	
Year	Michigan	United States	Michigan	United States
1973	600	10,815	74.03	56.95
1974	642	11,006	80.14	64.85
1975	676	11,383	88.43	71.72
1976	653	11,184	92.28	75.48
1977	623	10,761	99.08	79.46
1978	620	10,325	115.80	86.33
1979	638	10,316	122.37	93.09
1980	753	11,101	127.88	99.61
1981	754	11,079	122.15	97.64
1982	726	10,358	121.95	103.60
1983	759	10,761	127.87	107.17

SOURCE: Social Security Administration, Social Security Bulletin (Washington, D.C.), Table 196.

TABLE VII-8. NUMBER OF RECIPIENTS AND AVERAGE MONTHLY CASH BENEFITS UNDER GENERAL ASSISTANCE, MICHIGAN AND THE UNITED STATES: DECEMBER 1973-1982

Year	Number (In thousands)		Amount	
	Michigan	United States	Michigan	United States
1973	49	700	$ 122.26	$ 81.95
1974	67	851	121.92	96.35
1975	76	977	130.66	102.07
1976	66	905	143.85	116.54
1977	51	820	147.24	124.34
1978	53	766	161.29	128.11
1979	84	885	161.33	123.31
1980	123	986	155.07	129.84
1981[a]	118	1,008	n.a.	n.a.
1982[a]	128	1,154	n.a.	n.a.

SOURCE: Social Security Administration, Social Security Bulletin, June 1974 through June 1984 (Washington, D.C.: monthly), Table M-33.

a. September data.
n.a.: Data not available

TABLE VII-9. SUPPLEMENTAL SECURITY INCOME FOR THE AGED, FEDERALLY ADMINISTRATED PAYMENTS, MICHIGAN AND THE UNITED STATES: DECEMBER 1974-1984

(In thousands)

Year	Number		Amount of payment	
	Michigan	United States	Michigan	United States
1974	49	2,286	94.62	92.30
1975	52	2,307	98.72	90.90
1976	47	2,148	100.77	94.37
1977	45	2,051	107.45	96.62
1978	43	1,968	116.29	100.43
1979	41	1,872	127.05	122.67
1980	38	1,808	132.26	128.20
1981	34	1,678	131.46	137.81
1982	31	1,549	139.12	145.69
1983	30	1,515	153.74	157.89
1984	31	1,530	148.57	157.88

SOURCE: Social Security Administration, Social Security Bulletin, Annual Statistical Supplement, Table 180.

NOTE: For 1973 data refer to old age assistance program; beginning in January 1974, the supplemental security income program superseded the old age assistance program in the 50 states and District of Columbia.

TABLE VII-10. SUPPLEMENTAL SECURITY INCOME FOR THE BLIND, MICHIGAN AND THE UNITED STATES: DECEMBER 1972-1984

Year	Number (In thousands)		Average monthly amount[a]	
	Michigan	United States	Michigan	United States
1972	1.7	79.8	$114.27	$112.85
1973	1.7	77.9	113.15	112.00
1974	1.7	74.6	143.64	140.57
1975	1.7	74.5	149.05	146.57
1976	1.6	76.4	148.37	152.77
1977	1.7	77.4	159.41	159.20
1978	1.7	77.1	170.85	164.40
1979	1.8	77.3	188.12	212.27
1980	1.9	78.4	206.88	213.23
1981	1.9	78.6	221.29	227.70
1982	1.9	77.4	243.14	241.59
1983	2.0	80.0	259.62	256.39
1984	2.0	80.5	260.75	265.11

SOURCE: Social Security Administration, Social Security Bulletin, Annual Statistical Supplement, (Washington, D.C.: 1985), Table 181.
a. Amounts combined: federal and state payments.

TABLE VII-11. NUMBER OF RECIPIENTS AND AVERAGE MONTHLY CASH BENEFITS UNDER SUPPLEMENTAL SECURITY INCOME FOR THE PERMANENTLY AND TOTALLY DISABLED, MICHIGAN AND THE UNITED STATES: DECEMBER 1972-1984

Year	Number (In thousands)		Average monthly amount[a]	
	Michigan	United States	Michigan	United States
1972	48	1,168	$111.29	$106.15
1973	54	1,275	121.56	109.75
1974	60	1,635	147.05	144.28
1975	66	1,933	151.38	141.15
1976	68	2,012	153.66	145.50
1977	71	2,109	160.53	150.36
1978	73	2,172	175.07	154.82
1979	74	2,201	195.35	181.71
1980	74	2,256	209.72	197.90
1981	75	2,262	227.77	214.49
1982	75	2,231	242.70	299.04
1983	79	2,307	263.90	245.49
1984	85	2,419	272.35	256.15

SOURCE: Social Security Administration Social Security Bulletin, Annual Statistical Supplement, (Washington, D.C.: 1985), Table 182.

a. Amounts combined: federal and state payments.

TABLE VII-12. ESTIMATED EXPENDITURES IN MICHIGAN BY THE VETERANS ADMINISTRATION: FISCAL YEARS 1978-1984

(In millions of dollars)

Item	1978	1979	1980	1981	1982	1983	1984
Compensation and pensions	296.1	315.8	334.4	363.0	390.3	409.5	407.7
Vocational rehabilitation and education	101.0	77.0	67.5	67.7	47.2	50.4	41.3
Direct loans	.09	.0	.11	.15	.15	--	--
Insurance & indemnities	29.4	32.7	34.6	30.0	43.8	43.0	40.8
Hospital and domiciliary construction	2.1	1.8	4.6	3.1	5.9	5.9	6.7
Administrative costs and other benefits	135.7	149.2	159.2	170.5	189.0	206.2	216.9
Total	564.3	576.6	599.9	634.5	676.4	714.9	713.6

SOURCE: Administrator of Veterans Affairs, Annual Report, (Washington, D.C.: annually), Table 81.

TABLE VII-13. BENEFITS PAID IN MICHIGAN UNDER THE RAILROAD RETIREMENT AND UNEMPLOYMENT INSURANCE ACTS, BY CLASS OF BENEFIT: FISCAL YEARS 1970-1984

(In thousands of dollars)

Year	Retirement	Survivor	Unemployment	Sickness	Total
1970	28,007	10,079	957	1,510	40,553
1971	33,828	11,520	1,974	1,494	48,817
1972	37,395	12,514	2,630	1,226	53,766
1973	42,249	14,961	1,681	1,095	59,988
1974	44,761	16,658	1,010	905	63,334
1975	50,429	19,381	2,047	952	72,809
1976	55,276	22,753	4,625	2,692	85,346
1977	59,764	24,575	3,419	2,709	90,466
1978	62,536	25,733	4,042	2,517	94,829
1979	67,127	27,326	2,762	2,381	99,596
1980	73,702	30,172	9,260	2,570	115,704
1981	81,965	34,195	9,575	2,109	127,844
1982	89,449	36,367	10,510	1,965	138,391
1983	95,400	37,300	14,900	1,700	132,700
1984	97,414	37,138	6,797	1,319	142,667

SOURCE: Railroad Retirement Board, Annual Report (Chicago, IL: annually).

TABLE VII-14. NUMBER OF FOOD STAMP RECIPIENTS IN MICHIGAN, FISCAL YEARS: 1976-1985

(Monthly average number of persons)

Year	Total	In public assistance households	In nonpublic assistance households
1976	681,979	500,356	181,623
1977	631,748	490,984	140,764
1978	567,692	441,412	126,280
1979	633,550	480,760	152,790
1980	813,102	588,328	224,774
1981	941,532	720,490	221,042
1982	982,930	739,049	243,881
1983	1,082,632	806,059	276,573
1984	1,071,717	830,229	241,488
1985	984,739	769,140	215,599

SOURCE: Michigan Department of Social Services, Data Reporting Section, special release.

TABLE VII-15. VALUE OF FOOD STAMPS ISSUED IN MICHIGAN, FISCAL YEARS: 1976-1985

Year	Annual value[a] ($000)	Bonus value[b] ($000)	Average monthly bonus per person
1976	$ 299,442	$ 143,677	$ 17.56
1977	285,500	132,186	17.46
1978	270,400	124,925	18.36
1979	210,000	210,000	27.62
1980	262,764	262,764	26.93
1981	393,972	393,972	34.87
1982	448,920	448,920	38.06
1983	569,681	569,681	43.85
1984	580,270	580,270	45.12
1985	541,548	541,548	45.83

SOURCE: Michigan Department of Social Services, Data Reporting Section, special release.

a. Available for food purchases.
b. Difference between value and purchase requirement. The change in federal regulations effective fiscal year 1979 also eliminates the distinction between total value of coupons and the bonus value.

TABLE VII-16. MEDICAL ASSISTANCE (MEDICAID) RECIPIENTS AND EXPENDITURES FOR MEDICAL ASSISTANCE IN MICHIGAN, BY TYPE OF CASE AND TYPE OF SERVICE, FISCAL YEARS: 1983, 1984, AND 1985

Classification	Year	Recipients[a]	Expenditures	Average per recipient[b]
		Type of case		
Age 65 and over	1983	87,251	357,206,923	4,091.95
	1984	87,889	378,019,702	4,362.61
	1985	93,216	384,395,842	4,123.71
Blind	1983	1,986	4,833,606	2,433.84
	1984	2,070	5,407,549	2,612.34
	1985	2,269	5,415,995	2,386.95
Disabled	1983	118,896	485,166,318	4,080.59
	1984	124,461	550,197,465	4,420.64
	1985	137,437	551,450,084	4,012.38
Dependent children under age 21	1983	688,673	235,200,833	341.53
	1984	655,355	240,875,944	367.55
	1985	629,215	215,957,067	343.22
Adults in families with dependent children	1983	358,486	323,445,951	902.26
	1984	362,611	345,899,480	953.91
	1985	349,444	298,838,915	855.18
Other Title XIX recipients	1983	24,156	16,029,819	663.60
	1984	60,911	53,644,067	880.70
	1985	67,182	60,549,636	901.28
		Type of service		
Inpatient general hospital services	1983	156,400	449,238,161	2,872.37
	1984	151,399	520,842,715	3,440.20
	1985	136,907	441,961,618	3,228.19
Inpatient mental hospital services	1983	2,728	31,021,246	11,371.42
	1984	3,177	48,648,247	14,471.35
	1985	2,964	49,924,450	16,843.61
Intermediate care services:				
Mentally retarded	1983	4,017	148,036,021	36,852.38
	1984	3,591	143,128,505	39,857.56
	1985	3,670	157,208,370	42,836.07
Other	1983	37,334	266,639,480	7,142.00
	1984	36,476	280,219,327	7,682.29
	1985	37,470	286,770,991	7,653.35
Physicians' services	1983	861,939	161,816,716	187.74
	1984	844,490	159,886,330	189.33
	1985	816,218	145,072,102	177.74
Dental services	1983	293,010	24,863,021	84.85
	1984	290,341	24,419,550	84.11
	1985	280,462	23,177,645	82.64
Other practitioners' services	1983	169,331	8,659,453	51.14
	1984	175,702	9,168,022	52.18
	1985	165,338	9,146,881	55.32
Outpatient hospital services	1983	446,704	53,089,616	118.85
	1984	459,040	80,942,888	176.33
	1985	414,271	80,149,966	193.47
Clinic services	1983	28,874	1,413,507	48.95
	1984	26,806	2,076,845	77.48
	1985	22,969	1,886,407	82.13
Lab & radiological	1983	252,956	17,048,835	67.40
	1984	256,362	17,373,504	67.77
	1985	223,971	16,459,466	73.49
Home health services	1983	6,811	4,738,154	695.66
	1984	7,881	5,938,535	753.53
	1985	9,013	6,896,658	765.19

TABLE VII-16. MEDICAL ASSISTANCE (MEDICAID) RECIPIENTS AND EXPENDITURES FOR MEDICAL ASSISTANCE IN MICHIGAN, BY TYPE OF CASE AND TYPE OF SERVICE, FISCAL YEARS: 1983, 1984, AND 1985 (cont.)

Classification	Year	Recipients[a]	Expenditures	Average per recipient[b]
		Type of service (cont.)		
Prescribed drugs	1983	774,896	77,560,984	100.09
	1984	764,048	86,822,120	113.63
	1985	723,152	98,701,442	136.49
Family planning services	1983	148,931	16,770,199	112.60
	1984	150,047	20,634,316	137.52
	1985	135,584	17,725,793	130.74
SNF services	1983	19,304	95,854,903	4,965.55
	1984	18,373	97,945,935	5,330.97
	1985	18,304	95,031,145	5,191.82
Early and periodic screening	1983	113,537	5,430,555	47.83
	1984	106,592	6,301,448	59.12
	1985	114,917	5,763,074	50.15
Other care	1983	169,227	59,523,139	351.74
	1984	192,630	69,695,920	361.81
	1985	181,071	80,731,531	445.86
TOTAL	1983	1,187,612	1,421,703,450	1,197.11
	1984	1,155,165	1,574,044,207	1,362.61
	1985	1,133,317	1,516,607,539	1,338.20

SOURCE: Michigan Department of Social Services, Medical Assistance (Medicaid) Fiscal Year 1983 (Lansing: annually), Table 1; Medical Assistance (Medicaid) Fiscal Year 1984 (Lansing: annually), Table 1, and Medical Assistance, Fiscal Year 1985 (Lansing: annually), Table 1.

a. The sum of recipients by type of service adds to more than the total because more than one type of service was provided to many recipients.

b. Number of recipients and average per recipient values are monthly averages.

TABLE VII-17. SUMMARY OF MICHIGAN PUBLIC ASSISTANCE: JANUARY 1984 AND 1985

Program	1984	1985	Percentage change
	Persons or cases		
Aid to families with dependent children			
Number of families			
Unemployed parent	47,021	36,229	-23.0
Regular segment	196,576	191,156	- 2.8
Number of recipients			
Unemployed parent	193,591	150,465	-22.3
Regular segment	563,675	547,947	- 2.8
General assitance			
Cases with children	9,512	9,590	+ 0.8
Cases without children	145,328	130,685	-10.1
Number of recipients	191,885	175,978	- 8.3
Emergency assistance			
Families receiving AFDC	3,085	3,357	+ 8.8
Families not receiving AFDC	531	626	+17.9
Recipients receiving AFDC	10,841	11,856	+ 9.4
Recipients not receiving AFDC	1,930	2,240	+16.1
Food Stamps			
Households receiving public assistance	330,944	309,088	- 6.6
Households not receiving public assistance	115,849	105,943	- 8.6
Recipients receiving other public assistance	838,718	779,381	- 7.1
Recipients not receiving other public assistance	249,159	216,962	-12.9
Total recipients of money payments	1,188,054	1,082,713	- 8.9
	Amounts ($1,000)		
Aid to families with dependent children			
Unemployed parent	23,967	19,104	-20.3
Regular segment	82,558	84,226	+ 2.0
General assistance	31,160	29,379	- 5.7
Emergency assistance			
Receiving AFDC	597.5	609.4	+2.0
Not receiving AFDC	125.5	148.3	+18.2

TABLE VII-5. NUMBER, BY TYPE OF BENEFIT, OF OASDI CURRENT-PAY BENEFITS, MICHIGAN AND THE UNITED STATES: DECEMBER 1974-1980 AND 1982-1983

(In thousands)

Year	Retired workers	Disabled workers	Spouses of		Children of			Widowed parents	Widows and widowers	Total[a,b]
			Retired workers	Disabled workers	Retired workers	Deceased workers	Disabled workers			
					Michigan					
1974	603	95	112	17	22	122	53	23	157	1,213
1975	625	105	113	19	23	123	59	24	161	1,258
1976	643	112	114	19	23	123	62	24	164	1,291
1977	662	116	115	20	25	120	62	24	168	1,317
1978	678	116	115	19	23	115	60	23	171	1,325
1979	689	115	114	19	23	115	59	23	173	1,334
1980	723	113	116	18	23	108	54	23	177	1,359
1982	771	103	117	14	20	94	39	20	184	1,365
1983	796	105	117	12	19	87	38	16	188	1,379
					United States					
1974	15,958	2,237	2,826	412	619	2,893	1,263	574	3,770	30,853
1975	16,588	2,489	2,867	453	643	2,919	1,411	582	3,889	32,085
1976	17,165	2,670	2,896	474	653	2,903	1,480	579	3,995	33,023
1977	17,821	2,838	2,961	495	695	2,860	1,528	583	4,120	34,079
1978	18,358	2,880	2,980	492	661	2,780	1,497	576	4,212	34,586
1979	18,591	2,878	2,966	483	645	2,745	1,466	567	4,260	34,739
1980	19,562	2,859	3,016	462	639	2,610	1,357	562	4,411	35,585
1982	20,763	2,604	3,039	366	558	2,321	1,004	515	4,595	35,839
1983	21,419	2,559	3,039	308	512	2,146	936	400	4,694	36,085

SOURCE: Social Security Administration, Social Security Bulletin, (Washington, D.C.), Table 116.

a. Total is not identical sum: Parents and special age - 72 beneficiaries are not listed for years 1972-79.

b. As of the end of 1983, totals do not include an estimated 51,000 Railroad Retirement beneficiaries who would have been eligible for Social Security had they applied.

TABLE VII-17. SUMMARY OF MICHIGAN PUBLIC ASSISTANCE: JANUARY 1984 AND 1985 (cont.)

Program	1984	1985	Percentage change
Amounts ($1,000) (cont.)			
Food stamps value	49,717	46,765	- 5.9
Medical assistance	110,273	122,161	+10.8
Total amount of money payments	188,126	183,742	- 2.3
Amounts per family or recipient			
Aid to families with dependent children			
Per family			
Unemployed parent	509.71	527.32	+ 3.5
Regular segment	419.98	440.62	+ 4.9
Per recipient			
Unemployed parent	123.80	126.97	+ 2.6
Regular segment	146.46	153.71	+ 5.0
General assistance			
Per case	201.24	209.44	+ 4.1
Per recipient	162.39	166.95	+ 2.8
Emergency assistance			
Per case	199.93	181.54	- 9.2
Per recipient	56.61	51.40	-10.1
Food stamps			
Bonus per household	111.20	112.68	+ 1.3
Bonus per recipient	45.70	46.94	+ 2.7
Total expenditures per family recipient	158.35	169.70	+ 7.2

SOURCE: Michigan Department of Social Services, Assistance Payments Statistics (Lansing: monthly).

TABLE VII-18. ERROR RATES FOR AID TO FAMILIES WITH DEPENDENT CHILDREN: OCTOBER 1979 - SEPTEMBER 1984

(Percentage of total cases)

Reporting period	Source		Type			
	Agency	Client	Ineligible	Overpayment	Underpayment	Total
Oct 1979-Mar 1980	16.3	12.9	4.3	16.3	8.7	29.2
Apr-Sep 1980	14.5	10.9	4.4	14.2	6.7	25.4
Oct 1980-Mar 1981	13.5	11.8	3.7	14.7	6.9	25.3
Apr-Sep 1981	11.1	10.6	3.4	13.8	4.5	21.7
Oct 1981-Mar 1982	14.6	11.5	6.1	14.8	5.1	26.0
Apr-Sep 1982	19.4	9.7	5.6	17.3	6.2	29.1
Oct 1982-Mar 1983	18.9	10.9	6.1	17.4	6.3	29.8
Apr-Sep 1983	18.9	10.6	6.5	16.1	7.0	29.5
Oct 1983-Mar 1984	15.4	12.1	7.1	14.2	6.2	27.5
Apr-Sep 1984	12.1	10.5	4.4	14.1	4.0	22.5

SOURCE: State of Michigan, Department of Social Services, Office of Standards and Investigations, special release.

TABLE VII-19. MISPAYMENT RATES FOR AID TO FAMILIES WITH DEPENDENT CHILDREN: OCTOBER 1979 - SEPTEMBER 1984

(Percentage of total funds)

Reporting period	Ineligible cases	Overpayment cases	Underpayment cases	Total[a]
Oct 1979-Mar 1980	3.9	4.5	1.0	9.4
Apr-Sep 1980	3.8	3.6	0.7	8.1
Oct 1980-Mar 1981	3.0	3.9	0.7	6.9
Apr-Sep 1981	3.5	3.7	0.4	7.1
Oct 1981-Mar 1982	5.3	4.0	0.6	9.4
Apr-Sep 1982	5.3	3.5	0.6	8.7
Oct 1982-Mar 1983	6.0	3.6	0.7	9.5
Apr-Sep 1983	5.9	3.8	0.8	9.7
Oct 1984-Mar 1984	7.2	3.2	--	10.4
Apr-Sep 1984	3.9	2.7	--	6.6

SOURCE: State of Michigan, Department of Social Services, Office of Standards and Investigations, special release.

a. Total includes only ineligible and overpayment cases.

TABLE VII-21. MONTHLY AVERAGE NUMBER OF MEDICAL ASSISTANCE (MEDICAID) RECIPIENTS, BY COUNTY, FISCAL YEARS: 1984 AND 1985

	Number			Number	
County	1984	1985	County	1984	1985
Alcona	549	539	Lake	824	834
Alger	440	427	Lapeer	3,485	2,907
Allegan	2,838	2,572	Leelanau	277	283
Alpena	1,890	1,824	Lenawee	3,753	3,588
Antrim	859	792	Livingston	2,400	2,160
Arenac	1,114	1,116	Luce	612	561
Baraga	567	547	Mackinac	404	462
Barry	1,762	1,681	Macomb	17,263	14,925
Bay	6,493	6,137	Manistee	1,110	1,076
Benzie	643	626	Marquette	2,478	2,414
Berrien	10,362	10,217	Mason	1,217	1,198
Branch	2,369	2,141	Mecosta	1,375	1,425
Calhoun	8,632	8,294	Menominee	944	888
Cass	2,124	2,114	Midland	2,347	2,503
Charlevoix	883	801	Missaukee	465	485
Cheboygan	1,291	1,262	Monroe	5,275	5,224
Chippewa	1,493	1,552	Montcalm	2,400	2,271
Clare	2,082	2,027	Montmorency	597	562
Clinton	1,266	1,262	Muskegon	10,738	10,272
Crawford	681	652	Newaygo	2,084	1,787
Delta	1,994	1,937	Oakland	26,794	24,365
Dickinson	952	898	Oceana	1,410	1,300
Eaton	2,219	2,112	Ogemaw	1,532	1,446
Emmet	943	908	Ontonagon	539	526
Genesee	26,985	25,830	Osceola	1,069	1,086
Gladwin	1,492	1,467	Oscoda	442	446
Gogebic	1,002	1,065	Otsego	703	697
Grand Traverse	2,028	1,977	Ottawa	2,963	2,799
Gratiot	2,072	1,971	Presque Isle	622	598
Hillsdale	1,936	1,996	Roscommon	1,098	1,078
Houghton	1,914	1,862	Saginaw	13,731	13,283
Huron	1,554	1,414	St. Clair	7,060	6,685
Ingham	11,620	10,991	St. Joseph	2,165	2,155
Ionia	2,408	2,162	Sanilac	2,032	1,862
Iosco	1,246	1,184	Schoolcraft	502	511
Iron	707	704	Shiawassee	3,301	3,114
Isabella	2,463	2,510	Tuscola	2,860	2,678
Jackson	7,396	7,192	Van Buren	4,474	4,500
Kalamazoo	8,331	8,213	Washtenaw	7,732	7,341
Kalkaska	737	682	Wayne	188,529	177,354
Kent	16,052	15,376	Wexford	1,447	1,326
Keweenaw	89	69	MICHIGAN	475,440	450,075

SOURCE: Michigan Department of Social Services, Medical Assistance (Medicaid), Fiscal Year 1984 (Lansing: 1985), and Medical Assistance (Medicaid), Fiscal Year, 1985 (Lansing: 1985), Table 8.

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984

	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
County	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Alcona	2,032	199	380	97	481	3,189	1,313	919
Alger	1,217	178	238	93	371	2,097	839	534
Allegan	7,047	775	1,175	380	2,037	11,414	4,888	3,351
Alpena	3,992	516	776	233	1,415	6,932	2,966	1,885
Antrim	2,450	219	402	107	572	3,750	1,579	1,123
Arenac	1,974	258	387	189	600	3,408	1,393	915
Baraga	1,200	114	230	64	369	1,977	786	529
Barry	3,976	436	665	211	993	6,281	2,688	1,874
Bay	10,536	1,318	2,066	598	3,975	18,493	8,107	5,173
Benzie	1,606	161	254	90	344	2,455	1,013	729
Berrien	18,052	2,374	2,575	1,311	5,732	30,044	12,932	8,691
Branch	4,223	470	700	260	1,224	6,877	2,920	2,001
Calhoun	14,082	2,105	1,881	877	4,204	23,149	10,116	6,812
Cass	4,383	461	623	217	1,133	6,817	2,919	2,056
Charlevoix	2,687	252	426	131	642	4,138	1,733	1,232
Cheboygan	2,711	264	475	129	727	4,306	1,769	1,228
Chippewa	3,423	359	643	123	1,068	5,616	2,236	1,492
Clare	3,768	504	646	268	1,007	6,193	2,561	1,709
Clinton	3,332	322	720	170	1,154	5,698	2,431	1,593
Crawford	1,280	141	221	74	302	2,018	853	595
Delta	4,273	581	843	238	1,482	7,515	3,016	1,881
Dickinson	3,633	366	623	131	1,117	5,870	2,410	1,605
Eaton	5,341	511	883	241	1,816	8,792	3,837	2,575
Emmet	2,930	266	461	134	874	4,665	1,960	1,348
Genesee	31,820	6,374	5,632	3,366	13,609	60,801	26,936	15,785

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984 (cont.)

County	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Gladwin	2,983	393	561	204	764	4,905	2,058	1,370
Gogebic	3,269	357	642	192	1,204	5,564	2,252	1,458
Grand Traverse	6,318	694	950	266	1,744	9,972	4,304	2,981
Gratiot	3,867	403	736	194	1,411	6,611	2,752	1,788
Hillsdale	4,215	463	709	271	1,327	6,985	2,913	1,972
Houghton	4,821	458	1,013	194	1,606	8,092	3,249	2,141
Huron	4,872	379	1,045	172	1,625	8,093	3,261	2,203
Ingham	20,223	2,312	3,218	1,222	7,028	34,003	15,233	10,254
Ionia	4,484	532	752	254	1,431	7,453	3,124	2,084
Iosco	3,847	412	722	252	1,008	6,241	2,570	1,740
Iron	2,673	245	536	131	808	4,393	1,779	1,189
Isabella	3,151	349	610	233	1,176	5,519	2,317	1,503
Jackson	14,066	1,705	2,063	718	4,253	22,805	10,273	6,995
Kalamazoo	17,615	2,083	2,454	829	5,075	28,056	12,733	8,832
Kalkaska	1,243	152	210	82	361	2,048	841	556
Kent	40,910	4,486	6,077	1,884	12,157	65,514	29,241	20,126
Keweenaw	440	58	115	39	123	775	307	197
Lake	1,717	191	245	92	364	2,609	1,040	743
Lapeer	4,159	595	800	329	1,734	7,617	3,273	2,006
Leelanau	1,719	113	305	45	323	2,505	1,050	787
Lenawee	8,704	1,055	1,421	467	2,741	14,388	6,239	4,154
Livingston	5,858	665	979	368	1,996	9,866	4,424	2,914
Luce	857	154	148	74	296	1,529	621	395
Mackinac	1,445	151	278	76	399	2,349	935	638
Macomb	55,516	6,800	8,909	2,885	21,107	95,217	44,201	28,485

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984 (cont.)

County	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Manistee	3,310	343	479	140	795	5,067	2,132	1,504
Marquette	5,922	688	1,100	261	1,967	9,938	4,175	2,718
Mason	3,323	303	479	167	800	5,072	2,088	1,483
Mecosta	3,348	396	554	202	839	5,339	2,205	1,526
Menominee	3,178	321	624	169	958	5,250	2,086	1,396
Midland	4,904	489	1,141	270	1,813	8,617	3,809	2,450
Missaukee	1,229	133	257	86	329	2,034	801	538
Monroe	9,437	1,376	1,719	756	3,540	16,828	7,425	4,599
Montcalm	5,576	636	906	314	1,611	9,083	3,727	2,527
Montmorency	1,762	221	304	96	400	2,783	1,175	810
Muskegon	15,515	2,495	2,662	1,302	5,460	27,434	11,938	7,633
Newaygo	3,867	469	646	267	1,035	6,284	2,600	1,771
Oakland	80,773	8,235	13,483	3,569	29,181	135,241	64,874	43,144
Oceana	2,646	324	438	175	800	4,383	1,757	1,174
Ogemaw	2,455	386	454	210	662	4,167	1,693	1,104
Ontonagon	1,387	152	274	72	425	2,310	936	618
Osceola	2,570	337	457	206	755	4,316	1,736	1,151
Oscoda	940	142	160	69	250	1,561	637	412
Otsego	1,755	185	320	109	520	2,889	1,218	819
Ottawa	12,918	1,055	2,470	530	3,796	20,769	9,239	6,382
Presque Isle	1,917	238	454	97	616	3,322	1,352	866
Roscommon	4,156	496	687	207	822	6,369	2,718	1,920
Saginaw	18,154	2,800	3,538	1,633	7,493	33,618	14,508	8,904
St. Clair	12,881	1,340	2,179	679	4,394	21,473	9,424	6,242
St. Joseph	5,995	630	817	300	1,632	9,374	4,130	2,919

TABLE VII-20. NUMBER AND AMOUNT OF MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS BY TYPE OF BENEFICIARY: DECEMBER 1984 (cont.)

County	Number of Beneficiaries						Amount ($1,000) of monthly benefits	
			Dependents of					
	Retired workers	Disabled workers	Retired workers	Disabled workers	Survivors	Total[a]	Retired workers only	Total[b]
Sanilac	4,728	403	979	193	1,467	7,770	3,220	2,175
Schoolcraft	1,194	149	253	100	394	2,090	848	538
Shiawassee	5,756	690	1,979	406	2,069	9,900	4,260	2,751
Tuscola	4,900	619	1,077	333	1,898	8,827	3,725	2,325
Van Buren	7,317	934	1,052	550	2,059	11,912	4,922	3,359
Washtenaw	14,893	2,431	2,075	1,011	4,914	25,324	11,830	7,822
Wayne	200,896	32,198	31,523	14,811	81,804	361,232	160,598	100,475
Wexford	3,024	374	530	170	901	4,999	2,065	1,389
MICHIGAN	813,566	106,717	134,531	50,756	285,609	1,391,179	615,184	400,631

SOURCE: Social Security Administration: special release.

a. Total includes special age 72 beneficiaries.
b. Total includes retired workers, disabled workers, and all other beneficiaries.

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1984 AND 1985

County	Year	Inpatient hospital General hospital	Inpatient hospital Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Alcona	1984	383,574	20,814	30,305	970,721	94,143	31,091	1,792,644
	1985	337,306	30,715	31,100	993,694	95,793	24,299	1,786,076
Alger	1984	264,407	4,113	147,713	660,937	108,565	17,794	1,435,004
	1985	244,206	23,329	157,597	675,903	95,519	21,664	1,538,271
Allegan	1984	2,317,343	382,514	641,133	3,469,613	687,845	170,873	9,017,856
	1985	1,812,409	123,399	530,342	3,508,392	617,948	159,840	8,182,849
Alpena	1984	1,298,766	259,973	245,262	1,911,246	448,440	106,897	5,270,800
	1985	819,139	180,591	244,851	1,947,415	427,708	98,753	4,772,945
Antrim	1984	521,251	55,507	200,040	1,572,513	211,109	40,389	3,025,856
	1985	368,865	61,221	227,502	1,643,523	176,853	33,535	3,068,638
Arenac	1984	812,082	69,756	296,211	956,189	289,731	51,223	3,054,493
	1985	650,068	97,915	273,607	1,092,275	273,794	64,751	3,126,065
Baraga	1984	433,733	24,972	341,780	381,275	129,588	32,870	1,602,141
	1985	385,000	12,894	375,559	399,526	122,814	28,269	1,666,508
Barry	1984	1,364,386	182,987	692,098	1,694,926	469,556	95,577	5,450,226
	1985	1,170,587	178,448	671,149	1,487,602	472,160	94,011	5,106,126
Bay	1984	5,729,246	542,872	1,280,424	3,643,223	2,229,778	248,419	16,451,220
	1985	3,956,806	386,737	994,924	3,518,776	2,079,209	227,211	14,065,076
Benzie	1984	370,549	11,875	132,517	360,176	157,534	45,864	1,647,572
	1985	278,706	2,993	322,063	529,398	138,217	51,944	1,815,790
Berrien	1984	10,086,163	727,290	1,359,924	6,507,234	2,961,979	527,625	26,936,568
	1985	8,023,590	587,469	1,132,548	7,284,852	2,835,762	446,344	24,909,057
Branch	1984	1,332,053	276,596	557,134	21,466,949	458,410	116,225	26,866,185
	1985	1,217,812	86,861	425,196	22,808,240	450,511	97,548	25,953,507
Calhoun	1984	7,866,660	896,978	1,441,975	6,864,449	2,760,750	449,268	23,284,935
	1985	6,230,647	1,206,794	1,439,879	5,567,578	2,560,920	478,776	21,299,719
Cass	1984	1,795,371	79,937	585,006	1,790,794	500,698	136,522	5,817,163
	1985	1,158,934	13,758	474,475	1,864,932	504,333	129,425	5,046,729

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1984 AND 1985 (cont.)

		Inpatient hospital						
County	Year	General hospital	Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Charlevoix	1984	515,281	29,077	145,043	1,129,729	200,717	42,349	2,396,410
	1985	477,132	26,875	131,906	1,107,552	156,615	40,642	2,326,153
Cheboygan	1984	1,196,613	53,059	160,925	1,165,093	417,834	60,372	3,638,492
	1985	689,474	53,191	191,681	1,478,661	346,053	61,847	3,456,414
Chippewa	1984	1,491,682	78,546	530,419	1,357,927	387,842	60,223	4,862,983
	1985	1,121,797	97,899	628,363	1,406,035	395,206	67,909	4,689,948
Clare	1984	1,644,381	330,431	177,283	1,099,440	634,300	164,023	4,923,760
	1985	1,156,205	376,481	155,584	1,011,473	582,536	154,078	4,445,012
Clinton	1984	1,044,874	141,478	23,304	1,008,271	379,095	54,825	3,233,264
	1985	863,447	41,684	42,602	1,085,705	364,213	63,245	3,114,881
Crawford	1984	526,689	92,449	84,269	545,828	164,182	33,372	1,759,665
	1985	401,638	44,791	90,787	665,411	143,112	28,607	1,692,134
Delta	1984	1,093,417	139,667	1,529,568	2,626,034	459,581	78,310	6,927,800
	1985	708,113	126,888	1,411,799	2,519,405	414,887	94,934	6,328,920
Dickinson	1984	492,007	48,390	144,435	1,167,763	210,354	55,681	2,677,566
	1985	279,027	71,201	133,090	1,201,523	175,479	53,276	2,475,637
Eaton	1984	1,509,478	191,976	489,635	2,288,527	548,086	90,792	6,560,526
	1985	1,326,730	135,079	645,552	2,260,099	512,523	79,300	6,283,385
Emmet	1984	665,991	237,648	389,400	1,510,156	269,915	35,734	3,567,438
	1985	560,533	255,072	241,092	1,685,161	196,045	40,012	3,516,731
Genesee	1984	26,199,450	1,722,747	4,618,662	7,849,827	10,391,922	1,184,837	64,592,318
	1985	20,919,919	1,182,814	4,407,612	8,293,468	9,906,803	1,138,229	58,656,261
Gladwin	1984	1,108,844	36,114	155,136	544,310	429,345	112,666	3,069,576
	1985	854,123	36,985	152,404	456,792	392,511	110,716	2,737,951

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1984 AND 1985 (cont.)

County	Year	Inpatient hospital		Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
		General hospital	Mental hospital					
Gogebic	1984	462,393	36,039	379,763	1,735,863	193,722	67,640	3,314,631
	1985	498,970	94,523	369,028	1,712,044	219,415	77,910	3,434,800
Grand Traverse	1984	1,160,102	455,375	1,526,593	3,250,181	470,162	78,812	8,166,855
	1985	1,051,883	416,625	1,530,093	3,399,482	470,210	85,429	8,253,028
Gratiot	1984	1,289,512	101,293	173,215	2,542,127	538,423	90,823	5,506,997
	1985	889,075	100,164	106,357	2,550,171	447,004	98,229	4,994,540
Hillsdale	1984	1,977,829	232,364	372,043	2,501,560	533,790	78,330	6,774,490
	1985	1,219,623	179,668	496,550	2,624,496	473,256	89,488	6,291,947
Houghton	1984	1,226,101	92,375	2,018,503	1,967,189	431,870	118,327	6,863,027
	1985	825,395	123,006	1,991,943	2,334,276	369,639	121,273	6,835,017
Huron	1984	1,007,464	69,170	801,221	1,876,491	362,433	70,118	4,992,206
	1985	614,993	65,260	829,509	1,932,787	318,282	56,440	4,663,810
Ingham	1984	8,575,253	1,240,495	1,211,408	7,492,092	3,157,598	543,419	28,976,143
	1985	8,454,768	1,121,123	1,527,941	7,464,183	2,965,303	458,391	28,253,300
Ionia	1984	1,746,603	121,865	268,308	1,622,649	710,077	100,531	5,563,281
	1985	1,169,935	341,387	258,169	1,558,611	612,398	91,217	5,026,225
Iosco	1984	871,511	96,355	160,348	1,549,110	341,716	66,885	3,619,639
	1985	534,327	36,110	212,855	1,573,530	288,622	54,866	3,236,012
Iron	1984	359,525	7,333	592,123	1,916,617	128,162	26,016	3,558,729
	1985	265,869	9,785	546,944	2,010,309	115,997	29,624	3,498,709
Isabella	1984	1,434,835	405,345	2,646,664	21,624,898	594,406	81,831	27,869,259
	1985	1,315,288	282,455	2,567,427	29,325,450	608,291	76,866	35,404,428
Jackson	1984	6,135,972	1,140,081	1,125,911	5,372,622	2,358,726	297,457	19,589,693
	1985	4,382,424	841,304	1,085,829	5,628,102	2,150,890	260,190	17,650,466
Kalamazoo	1984	7,487,595	2,030,753	5,361,011	5,342,890	2,151,126	405,469	27,331,927
	1985	7,810,232	1,924,853	4,461,151	6,379,888	2,117,039	415,331	28,103,868

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1984 AND 1985 (cont.)

County	Year	Inpatient hospital General hospital	Inpatient hospital Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Kalkaska	1984	554,407	37,841	76,729	250,377	196,844	41,357	1,518,312
	1985	364,639	14,536	87,012	343,813	167,393	33,680	1,394,057
Kent	1984	11,088,188	2,749,587	3,116,006	13,564,312	4,097,990	715,513	42,793,439
	1985	9,761,967	2,036,190	2,549,866	15,244,859	3,735,159	665,301	41,817,615
Keweenaw	1984	22,780	--	--	--	16,813	3,695	79,425
	1985	26,354	--	--	--	9,934	6,295	73,468
Lake	1984	665,376	22,738	421,049	634,009	156,160	43,166	2,326,995
	1985	348,942	34,608	411,650	591,936	142,427	45,018	1,984,777
Lapeer	1984	2,541,360	226,738	1,298,452	24,624,789	1,009,312	156,584	31,325,294
	1985	1,747,417	126,202	1,075,560	23,926,054	846,783	133,595	29,265,182
Leelanau	1984	161,250	42,513	120,316	696,021	64,879	10,170	1,219,896
	1985	105,999	162,012	201,966	803,110	57,975	12,562	1,466,763
Lenawee	1984	3,220,121	310,359	724,437	2,507,137	1,033,949	176,257	9,502,032
	1985	2,208,395	415,852	813,752	2,671,584	916,000	159,857	8,726,064
Livingston	1984	2,017,925	393,674	305,352	2,068,485	701,103	126,996	6,792,824
	1985	1,679,230	215,104	230,717	2,133,546	582,292	115,211	6,074,938
Luce	1984	375,938	19,671	15,052	9,442,653	119,928	20,845	10,302,955
	1985	268,899	14,015	7,665	9,377,383	110,435	19,878	10,114,511
Mackinac	1984	315,543	2,439	92,768	637,388	97,776	20,326	1,340,207
	1985	299,087	1,406	146,432	510,002	106,505	21,112	1,363,785
Macomb	1984	15,133,326	2,145,865	6,791,747	17,516,154	6,898,878	857,257	57,520,388
	1985	10,624,684	1,227,805	6,227,616	18,172,024	5,271,391	699,579	50,356,316
Manistee	1984	766,174	273	469,395	1,423,362	267,116	82,348	3,507,324
	1985	517,865	36,719	536,107	1,453,746	261,956	62,036	3,389,532
Marquette	1984	1,713,939	54,141	817,896	2,429,920	679,847	108,579	7,004,139
	1985	1,426,594	144,808	882,064	2,486,801	583,586	93,705	6,989,300

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1984 AND 1985 (cont.)

		Inpatient hospital			Intermediate			
County	Year	General hospital	Mental hospital	Skilled nursing	care facility	Physicians	Dental	Total[a]
Mason	1984	817,022	63,585	990,408	845,945	307,501	71,726	3,717,123
	1985	554,788	21,875	936,467	885,776	262,603	69,446	3,314,494
Mecosta	1984	1,110,982	251,060	611,363	805,546	377,442	80,577	3,891,746
	1985	767,901	157,889	580,219	861,508	367,498	82,360	3,655,140
Menominee	1984	634,221	72,445	20,500	939,149	203,772	43,540	2,545,454
	1985	484,827	11,201	35,995	958,279	175,173	25,614	2,368,348
Midland	1984	1,328,631	311,665	496,740	1,456,178	595,398	138,525	5,333,971
	1985	1,347,318	254,474	641,454	1,470,773	696,505	162,392	5,640,159
Missaukee	1984	316,920	135,787	14,279	100,412	108,442	34,471	992,456
	1985	297,520	68,747	--	188,994	122,598	33,649	1,012,763
Monroe	1984	4,881,999	333,291	2,851,089	3,032,074	1,882,707	240,800	15,570,338
	1985	3,666,482	411,544	2,619,483	3,471,292	1,748,209	236,427	14,762,229
Montcalm	1984	1,781,366	353,257	121,271	1,589,610	714,138	90,733	5,750,700
	1985	1,510,042	86,080	277,523	1,647,334	699,452	84,297	5,534,651
Montmorency	1984	290,342	6,505	50,799	1,717,410	145,893	36,254	2,540,273
	1985	220,547	21,538	95,021	1,759,003	138,626	31,731	2,576,612
Muskegon	1984	8,472,051	597,263	1,529,152	20,941,301	3,268,386	564,994	40,070,753
	1985	6,430,421	472,314	1,654,162	22,396,966	3,024,050	522,166	39,299,822
Newaygo	1984	1,362,345	74,933	1,108,845	1,183,619	563,387	100,865	5,350,364
	1985	1,068,904	105,288	1,003,203	1,309,213	477,920	92,909	4,937,611
Oakland	1984	24,068,443	4,669,566	5,234,193	19,013,330	9,875,312	1,374,493	77,771,623
	1985	19,064,717	6,378,358	6,116,518	20,433,427	8,411,949	1,202,771	74,809,821
Oceana	1984	934,203	120,269	772,210	601,950	354,584	75,671	3,495,958
	1985	874,316	114,369	823,445	528,095	322,511	64,355	3,372,154
Ogemaw	1984	851,647	111,564	1,368,698	1,533,562	424,481	69,261	5,082,697
	1985	861,254	36,816	241,123	1,641,993	433,528	68,834	4,092,572

TABLE VII-22. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1984 AND 1985 (cont.)

County	Year	Inpatient hospital		Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
		General hospital	Mental hospital					
Ontonagon	1984	548,455	13,834	575,691	697,321	133,998	30,396	2,314,514
	1985	356,959	10,573	533,912	696,579	114,194	26,920	2,070,611
Osceola	1984	769,088	63,120	89,265	596,313	261,811	63,999	2,330,706
	1985	591,310	112,740	89,891	639,026	258,714	66,161	2,349,684
Oscoda	1984	237,158	24,944	45,620	399,424	100,237	17,501	1,020,482
	1985	243,402	14,014	60,864	474,555	117,698	21,149	1,149,018
Otesgo	1984	452,112	58,073	74,829	2,200,080	231,724	34,353	3,355,290
	1985	370,225	160,012	102,631	2,036,809	222,910	27,352	3,277,008
Ottawa	1984	1,864,855	420,245	626,631	5,576,164	715,027	132,802	10,863,084
	1985	1,142,922	193,999	630,305	6,338,754	627,567	115,459	10,773,289
Presque Isle	1984	465,956	68,873	74,592	1,920,412	164,382	26,560	3,085,521
	1985	519,603	24,397	140,807	1,971,187	150,844	23,561	3,174,523
Roscommon	1984	838,502	72,735	35,548	555,307	270,626	55,246	2,372,355
	1985	559,290	43,623	59,531	814,237	239,255	52,002	2,383,420
Saginaw	1984	10,661,446	1,213,503	1,389,124	8,113,348	3,976,875	748,335	31,693,202
	1985	8,791,368	840,750	1,580,679	2,451,810	3,727,463	687,638	29,908,757
St. Clair	1984	4,930,452	581,162	1,004,936	2,912,443	2,389,095	539,854	15,515,848
	1985	4,263,391	701,379	1,133,215	2,778,222	2,102,380	512,057	14,531,699
St. Joseph	1984	1,997,145	148,227	459,074	2,461,716	537,598	118,261	6,848,500
	1985	1,713,516	125,111	444,022	2,404,407	511,007	113,903	6,496,548
Sanilac	1984	1,449,235	54,335	604,101	1,296,111	591,441	134,343	5,317,317
	1985	1,050,689	162,879	653,277	1,642,758	517,338	112,039	5,372,659
Schoolcraft	1984	300,511	190,283	209,491	809,067	105,954	27,524	1,962,147
	1985	243,823	129,433	147,699	857,239	110,326	30,769	1,788,447

TABLE VII-2[illegible]. PAYMENTS BY STATE OF MICHIGAN TO VENDORS PROVIDING MEDICAL ASSISTANCE (MEDICAID), BY SELECTED TYPE OF SERVICE AND BY COUNTY, FISCAL YEARS: 1984 AND 1985 (cont.)

		Inpatient hospital						
County	Year	General hospital	Mental hospital	Skilled nursing	Intermediate care facility	Physicians	Dental	Total[a]
Shiawassee	1984	2,001,811	120,596	785,922	2,364,949	945,796	159,653	7,763,268
	1985	1,564,595	252,730	778,910	2,491,412	925,139	146,250	7,643,778
Tuscola	1984	1,863,201	73,514	895,938	19,781,090	706,385	128,086	24,996,717
	1985	1,512,464	96,662	516,104	18,972,057	681,600	113,960	23,498,018
Van Buren	1984	4,551,987	544,188	541,159	2,650,151	1,208,888	278,683	12,039,428
	1985	3,872,469	650,198	515,189	2,578,501	1,183,122	278,955	11,620,323
Washtenaw	1984	8,994,247	2,766,948	835,353	4,953,046	2,762,473	318,267	24,337,762
	1985	7,861,920	4,814,348	1,128,672	4,883,975	2,457,159	325,002	25,657,456
Wayne	1984	269,637,530	43,455,345	27,587,817	104,737,059	74,248,637	10,313,764	630,632,428
	1985	232,452,324	38,796,126	27,214,443	104,140,671	67,268,855	9,904,271	582,051,066
Wexford	1984	1,013,266	225,897	227,083	1,545,111	361,239	89,099	4,185,905
	1985	688,713	117,381	116,152	1,655,242	324,340	66,883	3,627,594
MICHIGAN	1984	503,802,982	76,869,460	98,517,632	456,461,174	161,847,730	24,571,208	1,529,970,498
	1985	419,373,087	70,794,452	95,558,383	444,081,672	146,806,239	23,173,830	1,443,473,515

SOURCE: Michigan Department of Social Services, Medical Assistance (Medicaid) Fiscal Year 1986 (Lansing: 1986), Table 9.

a. Totals for 1983 exclude gross adjustments of $43,949,466, accounting adjustments of $117,660, buy-in expenditures of $9,709,932, HMO expenditures of $49,756,835 and screening costs of $5,490,931. Totals for 1984 excludes gross adjustments of $61,254,598, accounting adjustments of $55,703, buy-in expenditures of $11,037,888, HMO expenditures of $60,906,335, and screening expenditures of $6,301,448.

TABLE VII-23. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, EMERGENCY ASSISTANCE, GENERAL ASSISTANCE, AND FOOD STAMPS IN MICHIGAN, BY COUNTY: JANUARY 1983 AND 1984

	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($1,000)	Average per recipient	Number of recipients	Total ($1,000)	Average per recipient
Alcona	1,477	190.6	$ 129.01	1,326	178.8	$134.90
Alger	977	116.6	116.97	961	119.5	124.39
Allegan	6,734	858.4	127.48	5,991	814.1	135.89
Alpena	4,839	683.4	141.23	4,371	643.0	147.10
Antrim	1,977	234.7	118.74	1,764	207.8	117.81
Arenac	2,873	366.7	127.62	2,951	430.1	145.73
Baraga	1,581	199.9	126.45	1,347	191.5	142.14
Barry	4,500	604.3	134.29	4,017	608.9	151.57
Bay	15,602	2,371.1	151.97	13,919	2,295.7	164.93
Benzie	1,487	170.3	114.49	1,314	152.3	115.88
Berrien	26,304	3,557.6	135.25	23,997	3,365.2	140.24
Branch	4,692	670.8	142.96	4,173	619.4	148.43
Calhoun	22,146	3,359.1	151.68	20,424	3,345.7	163.81
Cass	5,496	744.4	135.45	5,199	748.3	143.94
Charlevoix	2,164	277.1	128.07	1,770	255.9	144.59
Cheboygan	3,249	371.8	114.43	2,987	375.9	125.85
Chippewa	3,890	491.1	126.25	3,651	507.2	138.93
Clare	4,910	729.0	148.46	4,713	783.5	166.25
Clinton	3,026	440.8	145.68	2,790	433.4	155.35
Crawford	2,198	268.1	121.99	1,950	256.6	131.59
Delta	4,690	603.1	128.60	4,196	593.8	141.53
Dickinson	2,160	293.1	135.71	1,957	277.5	141.82
Eaton	5,440	763.9	140.42	4,681	692.1	147.86
Emmet	2,325	261.4	112.41	2,083	262.4	125.98
Genesee	74,141	12,073.6	162.85	69,462	12,031.2	173.21
Gladwin	3,916	566.8	144.73	3,704	600.9	162.22
Gogebic	2,696	292.4	108.45	2,883	362.9	125.88
Grand Traverse	4,167	514.4	123.44	3,704	493.2	133.16
Gratiot	4,602	571.1	124.10	4,243	593.2	139.81
Hillsdale	5,481	693.6	126.55	5,183	724.6	139.81
Houghton	4,916	570.1	115.97	4,651	629.1	135.27
Huron	3,376	456.2	135.14	2,785	404.1	145.12
Ingham	30,587	4,706.4	153.87	28,401	4,707.2	165.74
Ionia	4,814	699.2	145.24	4,403	666.4	151.35
Iosco	3,416	416.2	121.84	3,210	430.0	133.96

TABLE VII-23. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, EMERGENCY ASSISTANCE, GENERAL ASSISTANCE, AND FOOD STAMPS IN MICHIGAN, BY COUNTY: JANUARY 1983 AND 1984 (cont.)

County	1983			1984		
		Payments			Payments	
	Number of recipients	Total ($1,000)	Average per recipient	Number of recipients	Total ($1,000)	Average per recipient
Iron	1,414	145.3	$ 102.76	1,226	135.4	$110.45
Isabella	4,543	597.8	131.59	4,386	644.7	147.00
Jackson	16,577	2,515.1	151.72	15,211	2,462.3	161.88
Kalamazoo	21,394	3,141.1	146.82	19,927	3,189.3	160.05
Kalkaska	2,343	267.3	114.08	1,795	220.2	122.68
Kent	38,799	5,286.1	136.24	34,845	5,124.2	147.06
Keweenaw	238	23.5	98.55	173	19.5	112.45
Lake	2,250	301.1	133.81	2,187	319.1	145.91
Lapeer	7,312	1,013.7	138.64	5,879	871.7	148.28
Leelanau	733	60.9	83.08	729	80.0	109.73
Lenawee	9,502	1,391.5	146.44	8,094	1,242.9	153.55
Livingston	5,897	862.0	146.17	4,669	752.6	161.19
Luce	1,197	128.1	106.98	1,081	126.4	116.92
Mackinac	1,447	1,38.8	95.92	1,413	153.0	108.24
Macomb	40,213	6,016.8	149.62	31,189	5,007.6	160.56
Manistee	3,198	459.6	143.72	2,796	447.7	160.12
Marquette	7,061	915.2	129.62	5,893	822.9	139.64
Mason	3,199	400.5	125.18	3,127	409.2	130.85
Mecosta	3,438	434.6	126.41	3,485	478.4	137.26
Menominee	2,813	353.6	125.72	2,419	326.9	135.13
Midland	5,757	838.6	145.67	5,930	916.6	154.57
Missaukee	1,379	168.6	122.27	1,223	158.9	129.96
Monroe	13,007	2,010.3	154.56	11,693	1,957.6	167.42
Montcalm	5,687	700.9	123.25	5,406	705.4	130.49
Montmorency	1,465	187.8	128.21	1,183	170.7	144.33
Muskegon	22,812	2,808.3	123.11	22,964	578.1	155.81
Newaygo	5,113	641.8	125.52	4,729	633.2	133.90
Oakland	62,153	9,952.3	160.13	51,513	8,829.2	171.40
Oceana	3,599	444.9	123.62	3,212	423.3	131.79
Ogemaw	3,446	443.2	128.63	3,376	490.8	145.37
Ontonagon	1,282	154.6	120.56	1,181	168.9	143.01
Osceola	2,756	352.5	127.90	2,717	382.8	140.89
Oscoda	1,145	147.6	128.88	1,147	162.3	141.53
Otsego	1,515	196.0	129.39	1,457	202.4	138.90
Ottawa	6,317	807.5	127.83	5,204	714.2	137.24

TABLE VII-23. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER AID TO FAMILIES WITH DEPENDENT CHILDREN, EMERGENCY ASSISTANCE, GENERAL ASSISTANCE, AND FOOD STAMPS IN MICHIGAN, BY COUNTY: JANUARY 1983 AND 1984 (cont.)

	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($1,000)	Average per recipients	Number of recipients	Total ($1,000)	Average per recipient
Presque Isle	1,387	155.3	$ 111.95	1,198	145.5	$121.44
Roscommon	3,153	444.4	140.95	2,905	444.4	152.97
Saginaw	38,105	6,275.2	164.68	34,901	6,211.2	177.97
St. Clair	17,941	2,833.3	157.92	16,006	2,717.3	169.77
St. Joseph	5,419	740.4	136.63	5,184	736.5	142.06
Sanilac	5,157	717.8	139.18	4,380	662.8	151.33
Schoolcraft	1,354	157.5	116.30	1,220	158.1	129.61
Shiawassee	8,203	1,217.6	148.43	7,376	1,158.4	157.05
Tuscola	6,328	873.4	138.02	5,581	848.5	152.03
Van Buren	11,320	1,401.0	123.76	10,404	1,440.5	138.45
Washtenaw	17,160	2,731.2	159.16	15,494	2,579.5	166.49
Wayne	478,776	84,755.7	177.03	446,388	84,116.5	188.44
Wexford	3,514	439.6	125.11	3,056	392.2	128.33
TOTAL	1,188,054	188,125.1	158.35	1,082,713	183,741.7	169.70

SOURCE: Michigan Department of Social Services, Assistance Payments Statistics (Lansing: monthly), January 1984 and January 1985, Tables 2 and 1 respectively.

TABLE VII-24. TRANSFER PAYMENTS PER CAPITA AND RANKING OF MICHIGAN COUNTIES ACCORDING TO TRANSFER PAYMENTS AS A PERCENTAGE OF PERSONAL INCOME: 1984

County	Per capita	Percentage	County	Per capita	Percentage
Keweenaw	318	39.6	Emmet	204	19.0
Lake	278	39.0	Huron	213	18.9
Montmorency	319	37.9	Wayne	232	18.9
Alcona	304	35.3	Menominee	184	18.5
Roscommon	320	35.2	Muskegon	194	18.5
Ontonagon	243	33.4	Branch	188	18.0
Gogebic	280	31.5	Calhoun	210	17.9
Clare	255	31.0	Marquette	170	17.6
Ogemaw	238	30.8	Berrien	193	17.3
Luce	310	30.3	Hillsdale	176	17.1
Oscoda	218	29.9	Tuscola	175	17.0
Iron	298	29.8	Gratiot	176	16.9
Schoolcraft	259	29.2	Ionia	166	16.7
Baraga	244	29.2	Saginaw	187	16.3
Chippewa	231	28.0	Isabella	143	16.2
Gladwin	230	28.0	Bay	181	16.0
Houghton	219	26.6	Jackson	178	16.0
Cheboygan	227	26.6	St. Joseph	169	15.7
Crawford	218	26.3	Lenawee	175	15.4
Arenac	227	26.0	Shiawassee	179	15.4
Osceola	206	25.5	Leelanau	177	15.3
Mackinac	244	25.3	Grand Traverse	186	15.2
Alger	222	25.3	St. Clair	184	15.2
Presque Isle	218	25.1	Ingham	184	15.0
Benzie	232	24.3	Genesee	186	14.1
Delta	221	23.6	Barry	142	13.8
Alpena	231	23.6	Cass	158	13.8
Missaukee	184	23.6	Allegan	139	13.2
Iosco	209	23.4	Lapeer	151	13.1
Manistee	227	23.2	Kalamazoo	164	12.8
Oceana	200	23.1	Monroe	156	12.8
Antrim	218	23.1	Kent	157	12.7
Mecosta	168	23.1	Macomb	156	10.8
Wexford	204	22.7	Washtenaw	158	10.7
Charlevoix	213	21.7	Ottawa	127	10.4
Mason	194	21.1	Midland	136	10.3
Kalkaska	185	20.6	Clinton	122	10.3
Van Buren	197	20.3	Eaton	125	9.8
Montcalm	187	19.5	Oakland	164	9.2
Newaygo	176	19.5	Livingston	115	8.7
Sanilac	195	19.3			
Otsego	194	19.2	Michigan	188	14.9
Dickinson	218	19.2	United States	176	13.8

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VII-25. MICHIGAN COUNTIES RANKED ACCORDING TO SOCIAL SECURITY BENEFITS (OLD AGE, SURVIVORS, AND DISABILITY INSURANCE) AS A PERCENTAGE OF TOTAL PERSONAL INCOME: 1984

County	Dollar amount ($000)	As a percentage of income	County	Dollar amount ($000)	As a percentage of income
Keweenaw	3,638	21.6	Montcalm	43,965	9.2
Montmorency	13,673	20.8	Emmet	23,037	9.1
Lake	12,065	20.1	Van Buren	57,782	9.0
Roscommon	31,869	19.4	Muskegon	141,183	8.6
Alcona	15,531	18.2	Branch	34,213	8.5
Ontonagon	11,060	15.6	Berrien	151,110	8.3
Gogebic	26,571	15.5	Hillsdale	34,167	8.0
Iron	21,176	15.1	Gratiot	32,272	7.8
Oscoda	7,531	15.0	St. Joseph	48,154	7.8
Clare	30,398	14.9	Tuscola	44,214	7.8
Ogemaw	19,992	14.9	Jackson	120,422	7.4
Gladwin	24,211	13.8	Leelanau	12,376	7.4
Schoolcraft	10,141	13.4	Calhoun	118,820	7.4
Presque Isle	16,021	13.3	Lenawee	73,267	7.3
Baraga	9,157	13.2	Bay	95,679	7.2
Alger	10,026	13.0	Grand Traverse	50,317	7.2
Osceola	20,818	12.8	Marquette	49,434	7.1
Arenac	16,644	12.5	Ionia	36,756	7.1
Houghton	38,689	12.3	Wayne	1,892,040	7.0
Crawford	9,992	12.3	Saginaw	174,387	6.9
Luce	7,297	11.9	Barry	31,344	6.5
Antrim	18,643	11.8	Allegan	57,315	6.5
Cheboygan	21,049	11.8	St. Clair	105,618	6.3
Missaukee	9,473	11.5	Shiawassee	50,084	6.3
Alpena	35,081	11.4	Cass	34,209	6.2
Manistee	24,802	11.4	Kent	342,622	6.0
Iosco	30,493	11.3	Isabella	27,374	5.7
Mackinac	11,008	11.2	Genesee	320,396	5.6
Chippewa	26,505	11.2	Ingham	182,725	5.5
Benzie	11,839	11.2	Monroe	87,685	5.5
Oceana	20,697	10.9	Ottawa	108,812	5.4
Charlevoix	20,456	10.6	Kalamazoo	148,847	5.4
Wexford	24,607	10.4	Macomb	509,584	5.1
Mason	24,403	10.1	Lapeer	39,250	4.9
Delta	35,933	9.7	Midland	45,820	4.6
Kalkaska	9,938	9.6	Oakland	774,572	4.3
Dickinson	28,354	9.6	Clinton	27,180	4.1
Mecosta	25,943	9.6	Livingston	51,956	3.9
Menominee	24,726	9.6	Eaton	42,359	3.7
Huron	38,464	9.5	Washtenaw	138,909	3.6
Sanilac	38,165	9.4			
Otsego	14,377	9.3	Michigan	7,241,986	6.3
Newaygo	30,274	9.2	United States	72,960,000	5.7

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VII-26. MICHIGAN COUNTIES RANKED ACCORDING TO PUBLIC ASSISTANCE (WELFARE) BENEFITS AS A PERCENTAGE OF TOTAL PERSONAL INCOME: 1984

County	Dollar amount ($000)	As a percentage of income
Lake	4,163	7.0
Clare	10,178	5.0
Ogemaw	6,270	4.7
Gladwin	7,656	4.4
Wayne	1,141,594	4.2
Crawford	3,395	4.2
Arenac	5,453	4.1
Oscoda	2,022	4.0
Alcona	3,419	4.0
Baraga	2,742	4.0
Montmorency	2,512	3.8
Luce	2,204	3.6
Roscommon	5,720	3.5
Osceola	5,599	3.4
Saginaw	84,428	3.4
Oceana	6,349	3.3
Chippewa	7,869	3.3
Schoolcraft	2,478	3.3
Ontonagon	2,312	3.3
Kalkaska	3,356	3.3
Van Buren	20,882	3.2
Muskegon	51,021	3.1
Alpena	9,280	3.0
Cheboygan	5,294	3.0
Missaukee	2,432	2.9
Berrien	52,882	2.9
Calhoun	46,761	2.9
Houghton	9,019	2.9
Genesee	164,258	2.9
Manistee	6,062	2.8
Gogebic	4,718	2.8
Wexford	6,393	2.7
Newaygo	8,900	2.7
Alger	1,962	2.5
Benzie	2,668	2.5
Sanilac	10,035	2.5
Bay	32,255	2.4
Mecosta	6,513	2.4
Delta	8,814	2.4
Hillsdale	9,973	2.3
Keweenaw	389	2.3
Mason	5,540	2.3
St. Clair	37,977	2.3
Montcalm	10,771	2.3
Branch	9,055	2.3
Antrim	3,533	2.2
Tuscola	12,668	2.2
Mackinac	2,176 —	2.2
Gratiot	9,137	2.2
Jackson	35,546	2.2
Presque Isle	2,635	2.2
Iosco	5,808	2.2
Shiawassee	16,701	2.1
Charlevoix	3,931	2.0
Otsego	3,127	2.0
Ingham	66,877	2.0
Ionia	10,339	2.0
Isabella	9,333	1.9
Lenawee	19,370	1.9
Cass	10,509	1.9
Menominee	4,849	1.9
Iron	2,548	1.8
Huron	7,193	1.8
Lapeer	13,989	1.8
Barry	8,418	1.8
Marquette	12,176	1.7
St. Joseph	10,640	1.7
Kalamazoo	46,463	1.7
Monroe	26,874	1.7
Emmet	4,070	1.6
Allegan	12,832	1.4
Dickinson	4,245	1.4
Kent	80,658	1.4
Grand Traverse	8,740	1.3
Midland	12,004	1.2
Washtenaw	41,214	1.1
Eaton	10,508	0.9
Clinton	6,017	0.9
Livingston	11,677	0.9
Macomb	84,229	0.8
Oakland	138,851	0.8
Leelanau	1,186	0.7
Ottawa	12,304	0.6
Michigan	2,606,948	2.3
United States	40,414,000	1.3

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE VII-27. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER THE SUPPLEMENTAL SECURITY INCOME PROGRAM IN MICHIGAN, BY COUNTY: 1983 AND 1984

	Average monthly					
	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($000)	Per recipient	Number of recipients	Total ($000)	Per recipient
Alcona	151	$26.2	$173.68	158	29.6	$187.63
Alger	185	38.4	207.31	191	41.5	217.40
Allegan	774	151.4	195.61	830	182.0	219.27
Alpena	437	79.6	182.06	457	98.2	214.95
Antrim	237	47.6	200.70	266	61.8	232.14
Arenac	258	55.0	213.33	266	57.7	216.86
Baraga	196	32.6	166.36	202	38.9	192.41
Barry	363	71.0	195.48	406	89.2	219.62
Bay	1,193	243.7	204.31	1,278	291.3	227.91
Benzie	178	38.0	213.34	201	46.2	230.05
Berrien	2,774	550.6	198.47	3,066	685.8	223.69
Branch	622	87.0	139.91	591	95.5	161.61
Calhoun	2,082	451.7	216.95	2,230	521.3	233.76
Cass	524	97.3	185.63	536	112.4	209.72
Charlevoix	241	41.8	173.31	245	48.2	196.59
Cheboygan	283	53.3	188.19	300	59.5	198.24
Chippewa	552	114.9	208.16	585	132.3	226.10
Clare	372	75.7	203.59	473	104.5	221.00
Clinton	225	41.0	182.42	259	51.6	199.38
Crawford	92	16.3	177.24	128	25.1	196.09
Delta	635	114.5	180.30	664	130.2	196.11
Dickinson	298	45.5	152.53	305	54.8	179.58
Eaton	495	104.9	211.92	514	114.9	223.54
Emmet	280	53.2	190.11	304	62.9	206.94
Genesee	5,224	1,145.5	219.28	5,808	1,424.8	245.32
Gladwin	282	59.0	209.38	296	68.0	229.88
Gogebic	404	67.0	165.93	415	77.6	186.97
Grand Traverse	712	155.3	218.13	797	179.4	225.06
Gratiot	615	122.9	199.96	660	145.7	220.80
Hillsdale	496	106.5	214.80	526	127.6	242.58
Houghton	699	123.7	176.96	707	136.8	193.55
Huron	524	111.3	212.39	526	124.5	236.62
Ingham	2,652	566.3	213.55	2,988	711.9	238.26
Ionia	533	110.2	206.78	566	129.1	228.15
Iosco	249	44.9	180.15	265	53.9	203.39

TABLE VII-27. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER THE SUPPLEMENTAL SECURITY INCOME PROGRAM IN MICHIGAN, BY COUNTY: 1983 AND 1984 (cont.)

County	Average monthly					
	1983			1984		
		Payments			Payments	
	Number of recipients	Total ($000)	Per recipient	Number of recipients	Total ($000)	Per recipient
Iron	299	$48.7	$162.87	289	52.6	181.96
Isabella	745	105.7	141.89	800	138.1	172.69
Jackson	1,562	326.2	208.82	1,743	401.4	230.28
Kalamazoo	2,242	466.1	207.88	2,538	585.7	230.79
Kalkaska	169	36.3	215.01	191	43.4	227.32
Kent	4,771	983.5	206.14	5,130	1,169.1	227.89
Keweenaw	34	5.0	146.85	36	6.0	166.15
Lake	255	41.1	161.16	269	45.7	169.93
Lapeer	817	145.7	178.29	741	149.2	201.38
Leelanau	79	12.4	157.50	76	13.9	182.24
Lenawee	924	193.5	209.37	1,000	230.7	230.68
Livingston	397	80.9	203.67	450	100.6	223.55
Luce	276	43.5	157.48	258	45.7	177.15
Mackinac	188	32.1	170.87	195	37.9	194.22
Macomb	3,796	756.3	199.23	4,161	927.4	222.89
Manistee	229	40.9	178.56	257	51.2	199.16
Marquette	667	124.8	187.18	704	143.7	204.15
Mason	309	56.6	183.25	311	56.9	182.86
Mecosta	373	73.6	197.44	391	86.1	220.09
Menominee	319	50.5	158.36	374	63.6	170.17
Midland	492	105.2	213.83	539	126.2	234.11
Missaukee	138	28.2	204.47	144	34.4	239.16
Monroe	910	170.6	187.44	994	212.2	213.45
Montcalm	728	151.1	207.66	745	169.5	227.55
Montmorency	130	18.9	145.63	156	27.9	178.69
Muskegon	2,450	465.6	190.05	2,596	556.0	214.18
Newaygo	474	83.9	177.04	474	93.3	196.81
Oakland	5,788	1,235.4	213.43	6,764	1,584.4	234.25
Oceana	293	52.7	179.76	339	67.2	198.36
Ogemaw	349	51.9	148.61	369	69.1	187.32
Ontonagon	193	34.1	176.76	213	41.3	194.12
Osceola	355	72.7	204.65	414	90.9	219.61
Oscoda	85	13.9	163.36	95	17.2	181.14
Otsego	201	46.7	232.46	228	60.0	263.10
Ottawa	760	159.1	209.33	779	173.8	223.05

TABLE VII-27. TOTAL NUMBER OF RECIPIENTS AND EXPENDITURES UNDER THE SUPPLEMENTAL SECURITY INCOME PROGRAM IN MICHIGAN, BY COUNTY: 1983 AND 1983 (cont.)

	Average monthly					
	1983			1984		
		Payments			Payments	
County	Number of recipients	Total ($000)	Per recipient	Number of recipients	Total ($000)	Per recipient
Presque Isle	279	$52.1	$186.75	286	58.8	205.51
Roscommon	221	44.6	201.93	216	46.2	213.94
Saginaw	2,688	599.9	223.17	2,931	725.6	247.58
St. Clair	1,298	258.7	199.31	1,408	327.6	232.64
St. Joseph	546	108.4	198.56	588	132.1	224.64
Sanilac	470	104.6	222.60	491	116.8	237.96
Schoolcraft	224	49.2	219.50	208	50.4	242.11
Shiawassee	658	139.5	211.96	697	160.1	229.74
Tuscola	787	135.6	172.34	800	152.5	190.59
Van Buren	1,103	228.3	207.01	1,171	266.6	227.67
Washtenaw	1,857	420.8	226.63	2,158	526.5	243.99
Wayne	38,431	7,959.9	207.12	41,689	9,730.4	233.40
Wexford	416	76.8	184.60	443	91.4	206.35
TOTAL	106,612	21,735.8	203.88	115,858	26,372.3	227.63

SOURCE: Michigan Department of Social Services, Program Statistics (Lansing: annually), 1983, and Assistance Payments Statistics (January 1985), Table 17.

NOTE: Social Security Income comprises programs formerly under aid to the blind, aid to the aged, and aid to the disabled. The dollar amounts indicated include the federal payment as well as state supplementation.

TABLE VII-28. NUMBER AND PERCENTAGE OF MICHIGAN HOUSEHOLDS WITH SOCIAL SECURITY INCOME AND WITH PUBLIC ASSISTANCE INCOME, BY COUNTY: CENSUS 1980

	Social Security		Public Assistance	
County	Number	Percentage	Number	Percentage
Alcona	1,628	43.6	334	8.9
Alger	1,049	32.0	264	8.0
Allegan	6,874	25.1	2,011	7.3
Alpena	3,222	28.8	1,140	10.2
Antrim	1,926	33.5	388	6.7
Arenac	1,733	34.0	581	11.4
Baraga	1,165	39.7	314	10.7
Barry	4,086	26.6	1,104	7.1
Bay	10,840	26.2	3,941	9.5
Benzie	1,340	33.3	294	7.3
Berrien	16,094	26.5	7,076	11.6
Branch	3,981	28.3	1,125	8.0
Calhoun	13,464	26.3	5,139	10.0
Cass	4,823	28.0	1,617	9.3
Charlevoix	2,039	28.7	453	6.3
Cheboygan	2,434	33.2	585	7.9
Chippewa	3,067	30.5	1,085	10.8
Clare	3,397	39.2	1,011	11.6
Clinton	3,691	20.7	926	5.2
Crawford	1,107	32.8	278	8.2
Delta	4,260	31.5	1,089	8.0
Dickinson	3,334	34.8	663	6.9
Eaton	5,825	19.3	1,575	5.2
Emmet	2,285	28.2	494	6.1
Geneesee	33,874	21.8	17,175	11.0
Gladwin	2,649	37.0	858	12.0
Gogebic	3,423	44.7	714	9.3
Grand Traverse	4,647	24.1	1,255	6.5
Gratiot	3,563	26.7	1,138	8.5
Hillsdale	4,198	29.2	1,196	8.3
Houghton	5,211	40.0	1,320	10.1
Huron	4,416	34.5	929	7.2
Ingham	18,633	19.5	8,308	8.7
Ionia	4,347	26.8	1,374	8.4
Iosco	3,298	32.2	759	7.4

TABLE VII-28. NUMBER AND PERCENTAGE OF MICHIGAN HOUSEHOLDS WITH SOCIAL SECURITY INCOME AND WITH PUBLIC ASSISTANCE INCOME, BY COUNTY: CENSUS 1980 (cont.)

	Social Security		Public Assistance	
County	Number	Percentage	Number	Percentage
Iron	2,412	44.3	430	7.9
Isabella	3,898	24.2	1,256	7.8
Jackson	13,174	25.8	4,451	8.7
Kalamazoo	15,735	20.9	5,796	7.6
Kalkaska	1,131	29.8	353	9.3
Kent	35,742	22.9	11,503	7.3
Keweenaw	452	55.1	84	10.2
Lake	1,475	48.4	492	16.1
Lapeer	4,522	21.3	1,577	7.4
Leelanau	1,468	29.2	184	3.6
Lenawee	7,790	25.7	2,397	7.9
Livingston	5,980	19.1	1,662	5.3
Luce	744	33.5	186	8.3
Mackinac	1,328	36.0	363	9.8
Macomb	48,096	20.9	12,619	5.4
Manistee	3,036	35.5	884	10.3
Marquette	5,817	23.6	1,595	6.4
Mason	3,240	33.0	706	7.2
Mecosta	3,280	29.1	910	8.0
Menominee	3,076	33.1	696	7.4
Midland	4,565	18.6	1,816	7.4
Missaukee	1,208	34.9	338	9.7
Monroe	9,899	22.8	3,516	8.1
Montcalm	5,021	30.3	1,551	9.3
Montmorency	1,156	41.1	252	8.9
Muskegon	15,420	28.2	6,391	11.7
Newaygo	3,916	32.0	1,305	10.6
Oakland	73,682	20.6	17,436	4.8
Oceana	2,388	32.0	799	10.7
Ogemaw	2,267	37.9	608	10.1
Ontonagon	1,332	37.3	306	8.5
Osceola	2,165	33.1	684	10.4
Oscoda	1,043	40.8	194	7.5
Otsego	1,395	28.3	292	5.9
Ottawa	10,682	21.1	2,135	4.2

TABLE VII-28. NUMBER AND PERCENTAGE OF MICHIGAN HOUSEHOLDS WITH SOCIAL SECURITY INCOME AND WITH PUBLIC ASSISTANCE INCOME, BY COUNTY: CENSUS 1980 (cont.)

	Social Security		Public Assistance	
County	Number	Percentage	Number	Percentage
Presque Isle	1,885	37.4	404	8.0
Roscommon	2,889	44.0	582	8.8
Saginaw	18,423	24.1	9,100	11.9
St. Clair	12,759	26.9	4,649	9.8
St. Joseph	5,651	28.6	1,586	8.0
Sanilac	4,710	33.7	1,179	8.4
Schoolcraft	1,139	37.0	300	9.7
Shiawassee	5,643	24.1	1,870	7.9
Tuscola	4,683	25.6	1,560	8.5
Van Buren	6,802	29.4	2,895	12.5
Washtenaw	14,637	15.6	5,249	5.6
Wayne	215,417	26.1	117,733	14.2
Wexford	2,689	29.7	919	10.1
MICHIGAN	787,785	24.6	302,306	9.4

SOURCE: Bureau of the Census, 1980 Census of Population and Housing, STF3, computer tape.

Note: Income data pertain to the year 1979.

VIII. LAW ENFORCEMENT AND THE COURTS

The Michigan Department of State Police compiles data on criminal offenses, arrests, and stolen property within the state of Michigan. It publishes this data in the monthly *Uniform Crime Report Bulletin* a semiannual crime summary, and the annual *Uniform Crime Report*, which is usually published in the spring. From 1959 through 1970, the information now contained in the *Uniform Crime Report* was found in the Department of State Police's *Michigan Law Enforcement Officials Report on Crime*. Michigan began collecting such data in 1959.

National data on crime and comparisons with other states are found in the Federal Bureau of Investigation's *Uniform Crime Report* for the United States.

The Michigan Department of State Police collects data from its units in the field, county sheriff departments, and other police units of local governments. Its statistics are more comprehensive than those published in the federal *Uniform Crime Report*, especially since less is now being published in that document. The tables that follow present considerable information not included in this year's federal *Uniform Crime Report*. For additional information, the Uniform Reporting Section of the Michigan Department of State Police should be contacted.

The Federal Bureau of Investigation divides crimes into two categories: Index Offenses and Nonindex Offenses. The crime rate is the total index crime per 100,000 population. Crimes classified as index offenses are usually more serious and/or are based on data with a high degree of interpreting and reporting reliability. Index Offenses are murder and nonnegligent manslaughter; rape; robbery in the form of stealing from a person; aggravated assault; burglary, which is any unlawful entry to commit a felony or theft; larceny, which is theft excluding motor vehicle theft (listed separately) and does not include con games, embezzlement, or fraud; and motor vehicle theft (the term has been used interchangeably with auto theft), which includes all cases in which a motor vehicle is stolen or driven away. All other offenses are classified under Nonindex Offenses. Sex offenses which do not include rape or prostitution and commercialized vice are listed separately. Offenses against family and children include nonsupport, desertion, neglect, and abuse. The term "liquor laws" as used here includes all violations of the liquor laws except driving under the influence and drunkenness, which are listed separately.

Offenses are crimes committed; arrests refer to the number of individuals taken into custody and formally charged with violation of the law. An offense is cleared by arrest when at least one person is arrested, charged, and given to the court for prosecution. Data concerning offenses include attempts to commit a crime whether or not successfully executed. It might be noted that perhaps one-half of all crime goes unreported.

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TABLE VIII-3. SELECTED NON-INDEX CRIME OFFENSES IN MICHIGAN, BY TYPE: 1981-1985

Offenses	1981	1982	1983	1984	1985
Negligent manslaughter	a	50	101	133	86
Assault (non-aggravated)	58,881	60,227	64,882	67,419	72,078
Forgery & counterfeiting	a	5,790	5,245	5,723	6,353
Fraud	a	30,109	27,149	27,880	29,002
Embezzlement	a	1,110	995	1,185	1,602
Stolen property	a	7,939	8,627	8,636	8,386
Vandalism	a	139,307	144,180	149,073	155,027
Weapons (carry, possession, etc.)	6,329	5,444	5,498	5,338	6,002
Prostitution & common law vice	a	1,771	1,354	1,640	2,042
Sex offenses (except rape and prostitution)	a	7,443	7,841	8,675	9,425
Narcotic laws	a	18,118	17,738	17,606	18,583
Gambling	a	274	359	394	265
Family and children	a	4,301	3,674	2,993	3,026
Driving under influence, alcohol or narcotics	51,390	47,035	59,143	71,307	66,479
Liquor laws	a	21,270	20,126	20,468	20,785
Disorderly conduct	a	73,173	75,925	71,712	83,783
All other (includes drunkeness and vagrancy	488,343	126,615	126,629	121,753	132,275
Arson	8,812	b	b	b	b
Non-index total	613,755	545,976	569,466	581,935	615,201

SOURCE: Michigan Department of State Police, 1985 Uniform Crime Report (East Lansing: annually), p. 90.

a. Data not disaggregated from totals.

b. As of 1979, arson was officially classified as an index crime. However, for purposes of this table, it is grouped with non-index crime offenses until 1982.

TABLE VIII-4. SELECTED NON-INDEX CRIME OFFENSES PER 100,000 INHABITANTS IN MICHIGAN: 1981-1985

Offenses	1981	1982	1983	1984	1985
Negligent manslaughter	a	.5	1.09	1.4	.9
Assault (non-aggravated)	636.0	650.5	700.8	727.9	778.2
Forgery & counterfeiting	a	62.5	56.7	61.8	68.6
Fraud	a	325.2	293.2	301.0	313.1
Embezzlement	a	12.0	10.8	12.8	17.3
Stolen property	a	85.8	93.2	93.2	90.5
Vandalism	a	1,504.7	1,557.3	1,609.5	1,673.8
Weapons (carry, possession, etc.)	69.0	58.8	59.4	57.6	64.8
Prostitution & common law vice	a	19.1	14.6	17.7	22.0
Sex offenses (except rape and prostitution)	a	80.4	84.7	93.7	101.8
Narcotic laws	a	195.7	192.6	190.1	200.6
Gambling	a	3.0	3.9	4.3	2.9
Family and children	a	46.5	39.7	32.3	32.7
Driving under influence, alcohol or narcotics	555.1	508.0	638.8	769.9	717.8
Liquor laws	a	229.7	217.4	221.0	224.4
Disorderly conduct	a	790.4	820.1	774.3	904.6
All other (includes drunkeness and vagrancy	a	1,367.6	1,367.7	1,314.5	1,428.1
Arson	95.2	b	b	b	b
Non-index total	6,629.2	5,897.1	6,150.8	6,283.0	6,642.1

SOURCE: Michigan Department of State Police, *1985 Uniform Crime Report* (East Lansing: annually).

NOTE: Michigan population, as determined in 1980 by the Bureau of the Census, is 9,262,078.

a. Data not disaggregated from totals.
b. As of 1979, arson was classified as an index crime. However for purposes of this table, it is grouped with non-index crime offenses until 1982.

TABLE VIII-5. PERCENT DISTRIBUTION OF INDEX CRIME OFFENSES: 1979-1985

Offense	1979	1980	1981	1982	1983	1984	1985
Larceny	55.6	55.0	52.4	52.7	51.0	49.8	51.0
Burglary	24.6	26.1	21.7	26.3	26.0	25.0	23.8
Motor vehicle theft	9.8	8.8	9.3	10.0	11.2	13.2	12.9
Aggravated assault	5.6	5.1	4.8	5.0	5.2	5.2	5.7
Robbery	3.6	3.7	3.8	4.1	4.4	4.7	4.6
Arson[a]	--	--	--	1.1	1.4	1.0	.9
Rape	.7	.7	.7	.7	.8	1.0	1.1
Murder	.1	.2	.1	.1	.2	.2	.2

SOURCE: Michigan Department of State Police, *1985 Uniform Crime Report*, (East Lansing: annually).
a. As of 1979, arson was officially classified as an index crime.

TABLE VIII-6. PERCENT DISTRIBUTION OF SELECTED NON-INDEX CRIME OFFENSES: 1979-1985

Offense	1979	1980	1981	1982	1983	1984	1985
Vandalism	37.4	28.2	26.0	25.1	25.3	25.6	25.2
Disorderly conduct	15.8	12.8	12.2	13.4	13.3	12.3	13.6
Non-aggravated assault	11.7	9.4	9.6	12.0	11.4	11.6	11.7
Driving under the influence	9.1	7.5	8.4	8.3	10.4	12.3	10.8
Fraud and embezzlement	7.7	6.4	6.2	5.7	4.9	5.0	5.0
Liquor laws	4.7	3.6	3.7	3.8	3.5	3.5	3.4
Narcotic laws	4.4	3.7	3.7	3.4	3.1	3.0	3.0
Stolen property	1.6	1.2	1.3	1.5	1.5	1.5	1.4
Sex offenses	1.8	1.3	1.4	1.4	1.4	1.5	1.5
Forgery and counterfeit	1.2	1.2	1.1	1.8	.9	.9	1.0
Weapons	1.4	1.1	1.0	1.0	1.0	.9	1.0
Family and children	1.3	1.2	1.2	.8	.6	.5	.5
Arson[a]	1.8	--	1.4	--	--	--	--
All other	--	21.3	22.8	22.4	22.3	21.4	21.9

SOURCE: Michigan Department of State Police, *1985 Uniform Crime Report*, (East Lansing: annually).
a. As of 1979, arson was officially classified as an index crime.

TABLE VIII-7. PERCENT DISTRIBUTION OF JUVENILE ARRESTS IN MICHIGAN: 1983-1985

	Percentage				Percentage		
Offense	1983	1984	1985	Offense	1983	1984	1985
Larceny	30.0	29.3	26.0	Drunk & disorderly	3.3	3.4	3.6
Curfew/loitering and				Narcotic laws	2.8	2.8	3.0
runaways	13.5	15.0	16.4	Aggravated assault	2.6	3.0	3.2
Burglary	12.4	10.6	9.6	Stolen property	2.5	2.6	2.5
Vandalism	7.7	7.5	7.2	Motor vehicle theft	2.3	2.5	2.7
Non-aggravated assault	4.1	4.4	4.4	Robbery	2.1	2.1	2.3
Liquor laws	3.6	3.7	4.3	Weapons	1.2	1.3	2.0
				All others	11.9	11.8	12.8

SOURCE: Michigan Department of State Police, 1985 Uniform Crime Report, p. 34.

TABLE VIII-8. PERCENT DISTRIBUTION OF ADULT ARRESTS IN MICHIGAN: 1983-1985

	Percentage				Percentage		
Offense	1983	1984	1985	Offense	1983	1984	1985
Driving under influence	19.4	23.6	22.8	Stolen property	2.4	2.3	2.3
Larceny	11.7	10.4	9.3	Weapons	2.1	1.9	2.3
Liquor laws	10.3	9.8	9.0	Fraud & embezzlement	2.0	2.2	2.2
Drunk & disorderly	5.9	6.7	7.3	Vandalism	1.9	1.9	1.8
Burglary	4.5	3.7	3.3	Robbery	1.5	1.6	1.5
Aggravated assault	3.1	2.9	3.0	Motor vehicle theft	1.3	1.2	1.0
Narcotic Laws	5.7	5.3	5.2	Prostitution	1.5	1.0	1.4
				All others	23.7	22.2	24.3

SOURCE: Michigan Department of State Police, 1985 Uniform Crime Report, p. 34.

TABLE VIII-1. CRIMINAL INDEX OFFENSES IN MICHIGAN BY TYPE: 1966-1985

Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny and theft	Motor vehicle theft	Arson[a]	Total crime index
1966	365	1,844	12,423	10,641	72,333	153,895	27,612	--	279,113
1967	517	1,848	16,071	12,826	91,264	173,095	33,415	--	329,036
1968	614	2,105	17,608	13,802	88,234	167,783	34,732	--	324,878
1969	726	2,231	22,880	15,080	104,177	201,466	41,594	--	388,154
1970	831	2,402	30,758	17,099	139,398	253,258	41,184	--	484,930
1971	938	2,405	29,698	18,647	151,357	264,980	44,720	--	512,745
1972	964	2,652	26,248	20,440	143,034	248,201	42,890	--	484,429
1973	1,163	3,166	25,521	23,001	142,304	247,785	49,234	--	492,092
1974	1,170	3,370	30,657	24,739	172,828	302,301	56,599	--	591,664
1975	1,042	3,477	32,354	25,751	173,134	327,367	59,755	--	622,880
1976	1,001	3,281	30,241	24,154	151,207	321,192	55,688	--	586,764
1977	853	3,537	23,834	24,828	138,299	285,432	49,539	--	532,011
1978	862	3,614	20,192	28,661	130,716	279,261	47,995	--	511,301
1979	810	4,085	20,168	31,261	138,074	312,643	55,142	--	562,183
1980	941	4,267	22,363	30,760	158,944	337,609	53,562	--	608,446
1981	863	4,353	23,644	29,970	170,372	339,676	58,213	--	635,903
1982	870	4,083	24,470	28,952	162,457	326,283	61,252	7,056	615,423
1983	917	4,553	26,208	31,001	156,525	307,159	67,235	8,234	601,832
1984	865	5,687	27,694	30,806	147,948	295,114	78,006	6,023	592,143
1985	1,019	6,131	26,548	32,941	138,518	296,808	75,123	5,182	582,270

SOURCE: Michigan Department of State Police, 1985 Uniform Crime Report (East Lansing: annually), p. 90; and Michigan Law Enforcement Officials Report on Crime, 1968 through 1970 (East Lansing: annually), and special release.

a. Arson was not recorded as an index offense until 1982.

: annually), and
special release.
a. Arson was not recorded as an index offense until 1982.

TABLE VIII-2. CRIMINAL INDEX OFFENSES PER 100,000 INHABITANTS IN MICHIGAN: 1966-1985

Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny and theft	Motor vehicle theft	Arson[a]	Total crime index
1966	4.3	21.7	145.0	125.0	849.8	1,808.0	324.4	--	3,279.0
1967	6.0	21.4	186.2	148.6	1,057.5	2,005.7	387.2	--	3,812.7
1968	7.1	24.2	202.5	158.7	1,014.7	1,929.4	399.4	--	3,736.0
1969	8.3	25.4	260.6	171.7	1,186.4	2,294.3	473.7	--	4,420.4
1970	9.3	27.0	345.6	192.1	1,566.1	2,845.3	462.7	--	5,448.0
1971	10.4	26.7	330.1	207.3	1,682.5	2,945.5	497.1	--	5,699.7
1972	10.7	29.4	291.2	226.8	1,587.0	2,753.8	475.9	--	5,374.8
1973	11.9	34.9	281.7	253.9	1,570.5	2,734.6	543.4	--	5,430.9
1974	12.8	37.0	336.3	271.4	1,895.7	3,315.8	620.8	--	6,489.7
1975	11.4	38.0	353.3	281.2	1,890.7	3,575.1	652.6	--	6,802.2
1976	11.2	36.0	332.2	265.3	1,660.9	3,528.0	611.7	--	6,445.1
1977	9.3	38.7	261.1	272.0	1,514.9	3,126.7	542.7	--	5,765.4
1978	9.9	39.3	219.7	311.9	1,422.5	3,039.1	522.3	--	5,564.3
1979	8.8	44.4	219.1	339.5	1,499.7	3,395.7	598.9	--	6,106.0
1980	10.2	46.2	242.1	332.9	1,720.4	3,654.3	579.8	--	6,585.9
1981	9.0	47.0	255.0	324.0	1,840.0	3,669.0	629.0	--	6,773.0
1982	9.4	44.2	264.9	313.4	1,758.5	3,531.8	663.0	76.4	6,661.6
1983	10.0	49.3	283.7	335.6	1,694.3	3,324.8	727.8	89.1	6,514.5
1984	9.3	61.4	299.0	332.6	1,597.4	3,186.3	842.2	65.0	6,393.1
1985	11.0	66.2	286.6	355.7	1,495.5	3,204.6	811.1	55.9	6,286.6

SOURCE: Michigan Department of State Police, *Uniform Crime Report*, 1971 through 1985 (East Lansing: annually), pp. 12-28; and *Michigan Law Enforcement Officials Report on Crime*, 1966 through 1970 (East Lansing: annually), and special release.

NOTE: The Bureau of the Census indicates the 1980 Michigan population to be 9,262,078.

a. Arson was not recorded as an index offense until 1982.

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985

		Index crimes								
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	Total nonindex crimes
Alcona	1983	0	5	0	5	166	192	5	3	283
	1984	0	3	2	18	133	169	6	2	311
	1985	1	3	2	14	167	163	6	2	362
Alger	1983	0	1	4	14	86	167	9	2	458
	1984	1	9	4	13	113	115	11	2	505
	1985	0	7	0	22	97	133	12	3	470
Allegan	1983	2	52	27	171	664	1,517	118	34	5,646
	1984	0	49	42	112	764	1,562	84	41	6,384
	1985	0	65	19	160	674	1512	74	32	5,924
Alpena	1983	0	7	7	34	215	654	23	8	1,365
	1984	0	9	6	27	221	741	30	9	1,518
	1985	0	15	8	26	272	707	31	7	1,557
Antrim	1983	0	3	2	10	196	296	20	2	595
	1984	0	3	0	8	189	293	20	5	713
	1985	0	1	3	14	203	226	13	7	562
Arenac	1983	0	4	3	25	183	229	22	4	624
	1984	0	4	7	32	145	206	23	4	642
	1985	0	4	3	19	168	181	17	3	567
Baraga	1983	0	1	3	12	63	94	19	10	304
	1984	0	3	1	15	77	117	26	5	496
	1985	0	6	2	21	59	91	3	8	507
Barry	1983	0	12	9	55	364	782	38	17	2,041
	1984	1	15	15	57	363	794	44	14	2,374
	1985	2	31	15	68	302	748	62	12	2,263
Bay	1983	5	47	50	136	1,143	3,721	138	32	7,454
	1984	2	98	65	132	1,179	3,517	173	34	7,604
	1985	4	107	58	171	870	3,150	150	27	7,445
Benzie	1983	0	10	1	24	117	333	3	4	638
	1984	1	12	1	18	148	269	15	6	632
	1985	3	8	0	29	128	300	13	4	557
Berrien	1983	3	120	271	900	2,937	7,007	323	122	16,056
	1984	12	190	290	1,197	3,116	6,749	380	133	17,690
	1985	8	203	239	944	2,806	6,388	365	132	17,246

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985 (cont.)

		Index crimes								
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	Total nonindex crimes
Branch	1983	0	14	13	38	315	821	28	5	1,581
	1984	0	23	16	33	300	797	31	7	1,678
	1985	2	30	14	35	261	930	43	10	1,485
Calhoun	1983	10	60	170	431	2,434	5,444	243	70	6,844
	1984	8	71	170	471	2,340	4,928	238	83	7,465
	1985	11	69	192	470	2,270	4,528	234	96	7,157
Cass	1983	0	23	14	145	550	1,371	41	16	2,304
	1984	3	13	15	149	574	1,255	80	17	2,182
	1985	2	18	14	121	485	1,155	50	23	1,974
Charlevoix	1983	0	7	2	24	201	535	26	5	1,299
	1984	0	15	6	21	184	366	28	2	1,222
	1985	1	12	2	26	122	299	13	5	2,455
Cheboygan	1983	0	6	3	31	306	482	18	9	1,051
	1984	0	8	4	18	264	382	20	3	1,134
	1985	2	7	4	26	223	336	27	2	1,101
Chippewa	1983	1	13	8	51	403	821	40	17	2,397
	1984	0	12	9	54	316	808	46	7	2,968
	1985	2	10	5	43	346	797	40	9	2,496
Clare	1983	6	31	7	25	688	703	27	6	1,511
	1984	1	10	10	41	622	820	45	10	1,747
	1985	0	11	11	33	543	636	24	15	1,571
Clinton	1983	0	20	20	49	350	867	50	16	1,882
	1984	1	16	14	33	327	831	52	11	2,012
	1985	1	16	4	42	320	708	48	15	2,039
Crawford	1983	0	6	12	13	241	438	9	4	483
	1984	0	6	5	29	183	426	7	7	636
	1985	0	3	4	24	209	399	20	3	597
Delta	1983	0	6	3	39	419	975	61	10	1,620
	1984	0	15	8	42	423	1,067	46	13	1,769
	1985	1	4	4	52	330	1,036	55	9	2,058
Dickinson	1983	0	1	4	24	134	499	35	1	863
	1984	0	6	0	12	134	459	23	5	813
	1985	0	0	0	14	112	453	12	10	967

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985 (cont.)

		Index crimes								
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	Total nonindex crimes
Eaton	1983	0	19	42	88	615	2,069	140	22	3,134
	1984	3	33	27	97	560	2,020	115	21	3,333
	1985	3	38	41	106	692	2,300	158	24	4,573
Emmet	1983	0	11	7	38	223	803	30	4	3,934
	1984	0	13	7	36	262	807	29	3	4,366
	1985	0	18	8	30	210	753	26	2	4,389
Genesee	1983	44	306	1,017	2,956	10,097	18,892	1,498	490	23,286
	1984	56	352	1,137	3,225	9,973	18,477	2,270	533	26,361
	1985	58	369	1,482	3,526	9,372	18,016	2,903	576	28,938
Gladwin	1983	0	8	5	28	302	437	15	8	873
	1984	2	8	9	26	263	368	18	13	1,080
	1985	0	8	1	23	238	352	20	8	1,139
Gogebic	1983	0	5	7	26	148	452	44	5	1,571
	1984	0	1	9	19	176	419	37	7	1,682
	1985	0	3	3	23	157	320	35	4	1,530
Grand Traverse	1983	1	24	25	48	557	1,718	77	17	4,132
	1984	0	30	16	69	576	1,905	95	8	5,754
	1985	0	44	18	54	596	1,645	73	13	5,362
Gratiot	1983	1	13	2	45	231	804	32	17	2,078
	1984	1	49	8	24	199	765	44	13	2,067
	1985	0	30	8	37	262	715	34	6	2,213
Hillsdale	1983	2	21	6	58	383	881	32	8	2,082
	1984	0	23	21	61	361	672	23	18	1,906
	1985	1	23	11	44	322	733	36	9	2,644
Houghton	1983	0	12	3	26	157	508	22	22	1,130
	1984	1	4	5	33	165	531	30	6	1,181
	1985	0	14	2	27	143	553	27	8	1,346
Huron	1983	0	2	1	41	294	654	30	8	2,314
	1984	2	10	7	34	247	591	32	7	2,546
	1985	4	15	1	33	262	643	24	19	2,477
Ingham	1983	8	136	308	784	4,792	11,254	505	144	17,214
	1984	23	179	241	997	4,026	10,657	720	162	18,774
	1985	7	180	264	977	4,084	11,696	720	154	19,603

IX. ELECTIONS AND GOVERNMENT ORGANIZATIONS

Statistics on governmental organization are collected on the occasion of each Census of Governments conducted by the U.S. Bureau of the Census. That census also is a source of considerable detail on government financing and employment, the subject of Chapter X.

Other major sources of information regarding the Michigan government are the biennial Michigan Manual, the Journal of the Senate, and the Journal of the House. In addition, The Book of the States presents information on all states and is a good source for comparative statistics.

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TABLE IX-1. FIRST GOVERNORS AND OFFICERS OF MICHIGAN TERRITORY: 1805-1835

Governor/Officer	Date of appointment
General William Hull, Governor	March 1, 1805
Stanley Griswold, Secretary and Acting Governor	1806
General William Hull, Governor	April 1, 1808
General William Hull, Governor[1,2]	January 11, 1811
Reuben Atwater, Acting Governor	1811-1812
General Lewis Cass, Governor	October 29, 1813
General Lewis Cass, Governor	January 21, 1817
William Woodbridge, Secretary and Acting Governor	August 17, 1818
General Lewis Cass, Governor	January 24, 1820
William Woodbridge, Secretary and Acting Governor	August 8, 1820, September 18, 1821
General Lewis Cass, Governor	December 20, 1822
William Woodbridge, Secretary and Acting Governor	Sept. 29, 1823; May 28, 1825
General Lewis Cass, Governor	December 22, 1825
William Woodbridge, Secretary and Acting Governor	August 31, 1826; October 23, 1826; July 25, 1827
General Lewis Cass, Governor	December 24, 1828
James Witherell, Secretary and Acting Governor	January 1, 1830 to April 2, 1830
General John T. Mason, Secretary and Acting Governor	September 24, 1830 to October 4, 1830; April 4 to May 27, 1831
Stevens T. Mason, Secretary and Acting Governor[3]	August 1, 1831 to Sept. 17, 1831
George B. Porter, Governor[4]	August 6, 1831
Stevens T. Mason, Secretary and Acting Governor	October 30, 1831 to June 11, 1832; May 23 to July 14, 1833; August 13, to August 28, 1833; September 5 to December 14, 1833; February 1 to February 7, 1834
Stevens T. Mason[5], ex officio Governor as Secretary of Territory	July 6, 1834
Charles Shaler[6]	August 29, 1835
John S. Horner, Secretary and Acting Governor[7]	September 8, 1835

SOURCE: Michigan Department of Management and Budget, Michigan Manual 1979-1980 (Lansing: biennially), p. 99.

[1] Court martialed at Albany, Jan. 3, 1814, for his surrender of Detroit, August 16, 1812 and sentenced to be shot. Sentence remitted.

[2] Hull's appointment would have expired in 1814. The territorial records were destroyed by the British at the capture of Detroit, so that we have no official data on that point.

[3] On the resignation of General Cass, Aug. 1, 1831, who was appointed Secretary of War by President Jackson, July 1831.

[4] Died July 6, 1834.

[5] Henry D. Gilpin was appointed Governor by President Jackson, Nov. 5, 1834, but the nomination was rejected. No other appointment was made for the office, while Michigan was a territory.

[6] To supersede Mason as secretary, but the appointment was declined.

[7] Vice Shaler, resigned. Appointed secretary of Wisconsin Territory by President Jackson, May 6, 1836.

TABLE IX-2. GOVERNORS OF THE STATE OF MICHIGAN: 1835-1987

Governor	Appointment	Governor	Appointment
Stevens T. Mason	1835-1840	John T. Rich	1893-1896
Edward Mundy, Lt. Gov.[1]		Hazen S. Pingree	1897-1900
William Woodbridge[2]	1840-1841	Aaron T. Bliss	1910-1904
James Wright Gordon, Lt.Gov.	1841	Fred M. Warner	1905-1910
John S. Barry	1842-1846	Chase S. Osborn	1911-1912
Alpheus Felch[3]	1846-1847	Woodbridge N. Ferris	1913-1916
Wm. L. Greenly, Lt. Gov.	1847	Albert E. Sleeper	1917-1920
Epaphroditus Ransom	1848-1850	Alexander J. Groesbeck	1921-1926
John S. Barry	1850-1851	Fred W. Green	1927-1930
Robert McClelland[4]	1852-1853	Wilber M. Brucker	1931-1932
Andrew Parsons, Lt. Gov.	1853-1854	William A. Comstock	1933-1934
Kingsley S. Bingham	1855-1858	Frank D. Fitzgerald	1935-1936
Moses Wisner	1859-1860	Frank Murphy	1937-1938
Austin Blair	1861-1864	Frank D. Fitzgerald[5]	1939
Henry H. Crapo	1865-1868	Luren D. Dickinson[6]	1939-1940
Henry P. Baldwin	1869-1872	Murray D. Van Wagoner	1941-1942
John J. Bagley	1873-1876	Harry F. Kelly	1943-1946
Charles M. Croswell	1877-1880	Kim Sigler	1947-1948
David H. Jerome	1881-1882	G. Mennen Williams	1949-1960
Josiah W. Begole	1883-1884	John B. Swainson	1961-1962
Russell A. Alger	1885-1886	George Romney[7]	1963-1969
Cyrus G. Luce	1887-1890	William G. Milliken[8]	1969-1982
Edwin B. Winans	1891-1892	James J. Blanchard	1983-

SOURCE: Michigan Department of Management and Budget, Michigan Manual 1979-1980 (Lansing: Biennially), p. 100.

1. Served during absences of Governor Mason from State.
2. Resigned February 24, 1841 to become United States Senator.
3. Resigned March 3, 1847 to become United States Senator.
4. Resigned March 7, 1853 to become Secretary of Interior.
5. Died March 16, 1939.
6. Because Governor March 17, 1939.
7. Resigned January 22, 1969 to become U.S. Secretary of Housing and Urban Development.
8. Became Governor January 22, 1969.

IX-3. COUNTIES CREATED BY THE TERRITORY OF MICHIGAN IN EXISTENCE AT TIME OF STATEHOOD IN 1837

County	Year	County	Year
Wayne	1815	Gladwyn	1831
Monroe	1817	Gratiot	1831
Macomb	1818	Ionia	1831
Michilimackinac	1818	Isabella	1831
Oakland	1820	Midland	1831
St. Clair	1821	Montclaim	1831
Sanilac	1822	Oceana	1831
Shiawassee	1822	Ottawa	1831
Chippewa	1826	Jackson	1832
Lenawee	1826	Branch	1833
Washtenaw	1826	Calhoun	1833
Barry	1829	Demoine	1834[a]
Cass	1829	Dubuque	1834[a]
Eaton	1829	Allegan	1835
Ingham	1829	Hillsdale	1835
Iowa[a]	1829	Lapeer	1835
St. Joseph	1829	Milwaukee	1835[a]
Van Buren	1829	Saginaw	1835
Kalamazoo	1830	Genesee	1836[b]
Arenac	1831	Kent	1836[b]
Berrien	1831	Livingston	1836[b]
Clinton	1831		

SOURCE: Alec R. Gilpin, The Territory of Michigan, East Lansing: Michigan State Press: 1970, p. 210-212.

a. Counties west of Lake Michigan and not part of present state.
b. Organized by authority of the Senate and House of Michigan but before statehood.

NOTE: In 1818 Brown and Crawford counties were created. By statehood, however, both counties were no longer in existence. Crawford was later reorganized in 1879.

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985 (cont.)

		Index crimes								
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	Total nonindex crimes
Ionia	1983	2	20	17	92	394	1,177	83	18	3,453
	1984	0	17	13	86	378	1,198	59	12	3,284
	1985	5	22	10	94	335	1,013	70	17	3,254
Iosco	1983	3	10	3	63	317	590	37	16	1,327
	1984	0	6	2	57	310	558	20	15	1,476
	1985	2	7	2	59	292	577	37	13	1,451
Iron	1983	0	0	3	12	109	214	13	4	560
	1984	0	0	0	19	78	199	12	3	533
	1985	0	3	5	14	91	190	15	2	587
Isabella	1983	3	18	6	49	404	1,613	59	20	2,775
	1984	3	25	7	41	323	1,458	83	22	2,282
	1985	1	43	11	68	324	1,421	74	17	2,185
Jackson	1983	12	38	102	718	1,887	4,643	242	95	11,213
	1984	5	92	144	771	1,985	4,378	246	105	11,655
	1985	11	113	129	761	1,861	4,070	244	87	11,277
Kalamazoo	1983	8	93	269	1,053	3,459	9,572	334	115	13,230
	1984	8	168	314	1,124	3,323	9,195	375	102	15,515
	1985	7	154	313	1,180	3,593	9,119	538	100	19,787
Kalkaska	1983	0	14	4	61	318	355	17	6	1,247
	1984	0	15	2	40	313	389	26	7	1,327
	1985	0	10	5	45	254	364	29	4	1,376
Kent	1983	23	296	723	1,423	6,774	17,205	1,006	187	30,756
	1984	29	324	636	1,568	6,061	16,333	1,050	196	31,939
	1985	20	350	796	11,575	5,560	17,334	1,279	149	33,202
Keweenaw	1983	0	0	1	3	12	19	0	2	85
	1984	0	1	0	2	11	29	1	0	63
	1985	0	0	0	3	12	22	1	0	85
Lake	1983	0	2	7	31	386	221	10	1	457
	1984	0	3	5	18	344	185	10	10	432
	1985	0	8	6	27	427	263	22	17	433
Lapeer	1983	1	23	9	82	484	1,229	87	25	2,904
	1984	1	43	16	86	473	1,136	92	20	3,134
	1985	2	53	16	64	469	1,155	131	36	3,377

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985 (cont.)

		Index crimes								
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	Total nonindex crimes
Leelanau	1983	0	1	1	6	102	213	14	4	830
	1984	0	3	0	7	83	178	10	1	708
	1985	0	6	1	15	72	220	10	5	659
Lenawee	1983	0	24	28	103	683	2,157	85	42	4,876
	1984	4	40	26	109	654	1,895	93	41	4,793
	1985	0	42	27	95	695	2,036	119	36	5,058
Livingston	1983	1	36	30	146	934	2,063	177	44	5,901
	1984	2	44	48	166	1,146	2,043	190	37	5,600
	1985	5	61	63	161	960	2,100	224	47	5,867
Luce	1983	0	2	0	11	91	103	3	3	478
	1984	0	3	3	11	76	146	11	3	478
	1985	0	2	2	5	114	110	12	4	433
Mackinac	1983	0	2	3	30	160	442	14	9	955
	1984	0	16	3	21	148	586	14	8	847
	1985	0	1	3	24	135	695	11	1	939
Macomb	1983	11	148	641	1,795	8,068	25,772	4,452	370	50,904
	1984	17	201	651	1,541	7,078	21,999	5,290	220	46,909
	1985	24	200	753	1,835	7,119	24,853	5,665	214	55,793
Manistee	1983	0	5	6	10	339	580	25	5	913
	1984	0	15	15	21	317	475	28	5	977
	1985	1	15	6	34	290	411	24	5	1,235
Marquette	1983	0	28	9	175	431	1,783	95	33	4,843
	1984	0	31	9	179	475	1,747	82	40	5,587
	1985	4	37	6	170	489	1,849	135	36	5,654
Mason	1983	1	12	1	21	274	773	42	10	1,047
	1984	0	7	3	31	226	781	30	7	1,162
	1985	2	18	4	17	202	725	25	10	1,200
Mecosta	1983	1	11	13	42	445	1,164	42	9	2,920
	1984	1	26	6	34	279	1,320	34	9	2,773
	1985	0	26	5	44	290	1,203	40	14	2,493
Menominee	1983	0	4	3	28	232	583	36	28	1,200
	1984	1	2	1	39	225	564	32	22	1,291
	1985	1	7	1	25	183	494	34	12	1,373

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985 (cont.)

County	Year	Index crimes								Total nonindex crimes
		Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	
Midland	1983	3	10	5	63	453	1,683	58	7	2,412
	1984	0	19	4	25	349	1,665	51	14	2,389
	1985	0	24	9	44	290	1,641	74	22	2,630
Missaukee	1983	0	1	1	3	95	137	5	1	223
	1984	0	2	0	0	75	118	7	2	291
	1985	0	0	1	10	119	143	3	4	351
Monroe	1983	7	21	44	209	1,203	2,745	335	64	6,618
	1984	1	23	47	203	1,474	2,565	353	60	6,742
	1985	3	32	46	183	1,358	2,578	306	57	7,162
Montcalm	1983	2	20	9	53	564	1,043	59	22	3,541
	1984	1	28	24	45	508	1,071	73	13	3,376
	1985	0	22	12	59	467	953	79	17	2,662
Montmorency	1983	0	2	0	2	149	109	5	1	259
	1984	0	2	3	1	165	111	11	5	288
	1985	0	3	0	4	144	109	5	2	287
Muskegon	1983	10	56	171	1,049	2,583	6,085	263	34	11,785
	1984	5	70	179	1,156	2,225	6,226	303	55	9,997
	1985	5	89	140	1,081	2,024	5,616	293	48	10,197
Newaygo	1983	2	22	9	53	474	689	32	17	1,381
	1984	0	22	11	52	394	631	52	13	1,557
	1985	0	17	5	73	507	583	36	15	1,754
Oakland	1983	34	229	1,604	3,673	16,718	34,877	7,260	451	84,337
	1984	39	432	1,618	3,262	15,160	33,629	8,150	469	73,365
	1985	46	546	1,850	3,545	13,949	35,796	8,657	503	81,463
Oceana	1983	1	11	4	32	192	344	10	8	840
	1984	0	24	5	23	168	293	21	5	849
	1985	1	26	3	18	146	269	30	7	830
Ogemaw	1983	1	2	1	47	372	395	27	13	1,322
	1984	0	25	4	60	292	376	20	13	1,105
	1985	2	36	5	44	348	378	25	3	1,077
Ontonagon	1983	0	2	1	5	40	81	8	4	215
	1984	0	2	0	1	32	83	14	2	210
	1985	1	3	3	11	30	71	4	2	216

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985 (cont.)

County	Year	Index crimes								Total nonindex crimes
		Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	
Osceola	1983	1	1	3	30	146	371	25	0	972
	1984	3	9	3	16	210	346	11	1	965
	1985	1	2	2	23	198	275	11	2	771
Oscoda	1983	0	2	0	7	190	209	9	4	593
	1984	0	2	1	3	208	167	9	1	469
	1985	1	5	0	2	123	125	2	4	495
Otsego	1983	0	3	12	16	229	337	17	7	944
	1984	0	11	1	14	261	360	15	6	930
	1985	0	9	2	16	239	323	24	6	977
Ottawa	1983	2	32	21	114	851	3,006	140	39	7,462
	1984	1	38	19	125	820	3,109	125	39	7,805
	1985	0	36	20	141	856	3,102	149	28	7,699
Presque Isle	1983	0	2	1	10	131	168	9	1	431
	1984	1	1	0	7	89	139	11	5	372
	1985	0	1	1	13	103	118	3	0	401
Roscommon	1983	1	6	6	28	445	685	58	8	1,388
	1984	0	8	11	56	435	669	51	14	1,526
	1985	0	10	9	47	431	738	71	10	1,526
Saginaw	1983	27	156	422	1,668	3,989	9,051	521	195	18,585
	1984	18	203	413	1,495	3,694	7,973	611	211	19,604
	1985	22	244	376	1,596	3,909	8,011	594	246	20,773
St. Clair	1983	4	36	51	234	1,680	4,729	252	75	11,117
	1984	3	52	48	255	1,316	3,944	186	60	11,729
	1985	1	36	63	215	1,380	3,464	270	70	12,112
St. Joseph	1983	0	28	11	65	408	1,378	58	24	4,083
	1984	1	60	27	69	475	1,356	55	19	4,051
	1985	3	44	14	96	492	1,488	72	22	4,544
Sanilac	1983	0	9	6	37	311	631	51	10	1,452
	1984	0	23	10	23	369	504	29	8	1,533
	1985	0	42	7	23	375	513	37	13	1,642
Schoolcraft	1983	0	1	0	11	102	130	3	2	706
	1984	0	6	5	23	111	172	5	5	518
	1985	0	6	1	16	56	164	10	2	575

TABLE VIII-9. NUMBER OF CRIMINAL OFFENSES REPORTED IN MICHIGAN COUNTIES: 1983-1985 (cont.)

		Index crimes								
County	Year	Murder and nonnegligent manslaughter	Rape	Robbery	Aggravated assault	Burglary	Larceny	Motor vehicle theft	Arson	Total nonindex crimes
Shiawassee	1983	0	21	15	78	652	1,446	72	23	2,815
	1984	0	32	21	70	547	1,311	57	17	3,217
	1985	2	37	13	79	432	1,378	100	16	3,303
Tuscola	1983	1	12	5	69	341	843	62	24	2,524
	1984	0	29	7	56	325	701	58	19	2,545
	1985	0	33	3	74	293	738	53	9	2,481
Van Buren	1983	2	79	35	246	937	1,826	105	41	5,301
	1984	3	64	44	229	1,054	1,830	113	36	5,532
	1985	4	53	43	242	1,153	1,926	136	52	5,615
Washtenaw	1983	13	95	364	1,021	3,680	11,444	1,269	132	21,018
	1984	17	165	261	959	3,896	11,608	1,126	78	22,378
	1985	15	194	377	1,194	3,533	11,476	1,200	68	23,059
Wayne	1983	657	1,894	19,467	9,791	62,934	82,864	45,890	4,835	113,385
	1984	581	1,946	20,831	9,425	59,730	82,482	53,800	6,188	121,483
	1985	714	2,015	18,930	10,494	54,136	80,999	48,704	1,862	124,426
Wexford	1983	0	7	5	30	379	962	38	8	2,085
	1984	2	15	6	29	337	1,000	60	5	2,828
	1985	0	15	7	29	355	1,007	67	9	2,881
TOTAL	1983	917	4,553	26,208	31,001	156,525	307,159	67,235	8,234	569,466
	1984	865	5,687	27,694	30,806	147,948	295,114	78,006	9,460	581,935
	1985	1,019	6,131	26,548	32,941	138,518	296,805	75,123	5,182	615,201

SOURCE: Michigan Department of State Police, 1983-1985 Uniform Crime Report, (East Lansing: annually).
a. Figures incomplete due to incomplete jurisdiction reporting.

NOTE: Some county totals reflect incomplete jurisdictional reporting.

IX-4. HISTORY OF COUNTIES IN MICHIGAN

County	
Alcona	The name is an Indian word meaning a fine or excellent plain. Organized in 1869.
Alger	Name for the Hon. Russell A. Alger, Governor of the State, 1885-1886. Organized in 1885.
Allegan	It was named for the Indian tribe of "Allegawi" or "Allegans" believed by some to have been identical with the mound builders. Organized in 1835.
Alpena	The name of the county is an Indian word meaning "a good partridge country." Organized in 1857.
Antrim	Named for County Antrim in Ireland. Organized in 1863.
Arenac	Arenac is a derivation of the Latin "arena" and the Indian "ac." The combined words mean "sandy place." Organized in 1883.
Baraga	Bishop Frederic Baraga, a missionary, was honored in the naming of this county. Organized in 1875.
Barry	Named for the Hon. William T. Barry, Postmaster General under President Andrew Jackson. Organized in 1839.
Bay	Obtained its name because it encircles Saginaw Bay. Organized in 1857.
Benzie	This is a derivative of the French "aux-Bec-Scies." The name was first applied to the river, changed to Betsey and finally Benzie. Organized in 1869.
Berrien	Named for the Hon. John M. Berrien, Attorney General under President Andrew Jackson. Organized in 1831.
Branch	Hon. John Branch, Secretary of the Navy under President Andrew Jackson was honored in the naming of this county. Organized in 1833.
Calhoun	Named for the Hon. John C. Calhoun, Vice President of the United States. Organized in 1833.
Cass	Named in honor of Lewis Cass, a Governor of the Territory. Organized in 1829.
Charlevoix	Pierre F. de Charlevoix, a Jesuit missionary, was respected in this naming. Organized in 1869.
Cheboygan	The word is Indian and was first applied to the river. Organized in 1853.
Chippewa	The county was named for the Indian tribe of the same name. Organized in 1826; boundaries changed in 1843.
Clare	Named for County Clare in Ireland. Organized in 1871.
Clinton	Hon. DeWitt Clinton, Governor of New York and builder of the Erie Canal, was honored in his naming. Organized in 1839.
Crawford	Col. Wm. Crawford was recognized in the naming of this county. Organized in 1879.
Delta	Name taken from the Greek letter "Delta" referring to the triangular shape of the original county which includes parts of Menominee, Dickinson, Marquette and Iron Counties. Organized in 1861.
Dickinson	Named for the Hon. Donald M. Dickinson, Postmaster General under President Grover Cleveland. Organized in 1891.
Eaton	Named for the Hon, John H. Eaton, Secretary of War under President Andrew Jackson. Organized in 1837.
Emmet	Robert Emmet, the Irish patriot, was honored by this naming. Organized in 1853.
Genesee	The settlers of this part of the state came from a county in western New York by the same name. Organized in 1836.

IX-4. HISTORY OF COUNTIES IN MICHIGAN (cont.)

County	
Gladwin	Named for Major Henry Gladwin, English Commandant at Detroit in 1763. Organized in 1875.
Gogebic	The county was named for a lake in the territory called Lake Agogebic but was changed to Gogebic. Agogbeic is an Indian word. Organized in 1887.
Grand Traverse	The name of the county is a French phrase "grande traverse" meaning long crossing. Organized in 1851; boundaries changed in 1865.
Gratiot	Named for Capt. Charles Gratiot, who supervised the building of Fort Gratiot at the present site of Port Huron. Organized in 1855.
Hillsdale	The rolling terrain of the area served as the basis for the name of the county. Organized in 1835.
Houghton	Named for Prof. Douglass Houghton, a geologist in Michigan. Organized in 1846 and reorganized in 1848.
Huron	Is named for the Indian tribe of the same name. Organized in 1859.
Ingham	Named for the Hon. Samuel D. Ingham, Secretary of the Treasury under President Andrew Jackson. Organized in 1838.
Ionia	Named for a province in Greece. Organized in 1837.
Iosco	An Indian word meaning "water of light." Organized in 1857.
Iron	The mineral product of the county served as the reason for this name. Organized in 1885.
Isabella	Queen Isabella of Spain was honored in this designation. Organized in 1859.
Jackson	Named for President Andrew Jackson. Organized in 1832.
Kalamazoo	The name supposedly means "the mirage or reflecting river" and the original Indian name was "Kikalamazoo." Organized in 1830.
Kalaska	This is an Indian word of uncertain meaning. Organized in 1871.
Kent	Chancellor James Kent, a celebrated jurist of New York, was honored by this naming. Organized in 1836.
Keweenaw	This is an Indian word meaning "portage or place where portage is made." Organized in 1861.
Lake	There is no special appropriateness to this name other than the fact that the county has numerous small lakes. Organized in 1871.
Lapeer	This is supposedly a derivation of the French words "La Pierre." Organized in 1835.
Leelanau	This is an Indian word meaning "delight of life." Organized in 1863.
Lenawee	An Indian word meaning "male" was used for this naming. Organized in 1826.
Livingston	Named for the Hon. Edward Livingston, Secretary of State under President Andrew Jackson. Organized in 1836.
Luce	The county was named for the Hon. Cyrus G. Luce, Governor of Michigan, 1887-1890. Organized in 1887.
Mackinac	The county was laid out under the name of Michilmackinac in 1818. Organized in 1849.
Macomb	Named for General Alexander Macomb, an officer in the War of 1812. Organized in 1818.
Manistee	The name is Indian and was first applied to the principal river of the county. Organized in 1855.
Marquette	Father Marquette, the Jesuit missionary, was respected in this naming. Organized in 1846 and reorganized in 1848.

IX-4. HISTORY OF COUNTIES IN MICHIGAN (cont.)

County	
Mason	The county was named for the Hon. Stevens T. Mason, Governor of Michigan, 1835-1840. Organized in 1855.
Mecosta	Chief Mecosta, an Indian chief, was recognized in this naming. Organized in 1859.
Menominee	Named for the Menominee tribe of Indians who lived in the county. Organized in 1859.
Midland	The county is located not far from the geogrpahical center of the Lower Peninsula and thus was named. Organized in 1850.
Missaukee	Named for a prominent Indian chief of that region who was better known as "Nesaukee." Organized in 1871.
Monroe	It was named in honor of President James Monroe. Established in 1817.
Montcalm	A French officer, General Marquis de Montcalm, was recognized in the naming of this county. Organized in 1850.
Montmorency	Named in honor of Count Morenci, who aided the United Colonies in the war with England. Organized in 1881.
Muskegon	This is a derivation of the Indian word "river with marshes." Organized in 1859.
Newaygo	This county was named for Chief Newaygo, a Chippewa chief. Organized in 1851.
Oakland	The prevalence of oak trees in the area was the reason for this name. Organized in 1820.
Oceana	Traditional explanation is that it derives its name from its proximity to Lake Michigan; more recent deduction attributes the name to the title of a book (Oceana, James Harrington, 1656). Organized in 1851 and reorganized in 1855.
Ogemaw	Named in honor of the Ogemaw tribe of Indians. Organized in 1875.
Ontonagon	This is a derivation of the Indian word "Nondon-organ" meaning "hunting river." Organized in 1846, reorganized in 1848 and legalized by the Legislature in 1853.
Osceola	Chief Osceola, a Seminole Indian, was honored. Organized in 1869.
Oscoda	The name is supposedly an Indian word meaning "pebbly prairie." Organized in 1881.
Otsego	The county was named for the Otesgo tribe of Indians. Organized in 1875.
Ottawa	Named for the Indian tribe of the same name. Organized in 1837.
Presque Isle	This is a derivation of the French, meaning "narrow peninsula." Organized in 1871; reorganized in 1875.
Roscommon	The name was taken from the county of the same name in Ireland. Organized in 1875.
Saginaw	Takes its name from the Indian words "Sac-e-nong" or "sac-town" having reference to the story that a tribe of Sacs lived at the mouth of the river. Organized in 1835.
St. Clair	Named for General Arthur St. Clair, the first Governor of the Northwest Territory. Organized in 1821.
St. Joseph	This county honored St. Joseph the patron saint of New France. Organized in 1829.
Sanilac	Named for Sanilac, an Indian chieftain. Organized in 1848.
Schoolcraft	The county was named for Henry R. Schoolcraft, who served as mediator between the United States and the Indians, and who was also a member of the Territorial Council of Michigan. Organized in 1846.

IX-4. HISTORY OF COUNTIES IN MICHIGAN (cont.)

County	
Shiawassee	This is an Indian word meaning "river that twists about," supposed to refer to the stretch of the Shiawassee River. Organized in 1837.
Tuscola	The name is Indian but there is no record of the meaning of the word. Organized in 1850.
Van Buren	The Hon, Martin Van Buren, then Secretary of State and later President of the United States, was honored in the naming of this country. Organized in 1837.
Washtenaw	The original word was "wash-ten-ong" meaning at or on the river. Organized in 1826 and reorganized in 1829.
Wayne	The first county to be organized was named for General Anthony Wayne. Organized in 1815.
Wexford	Named for Wexford County in Ireland. Organized in 1869.

SOURCE: Michigan Department of Management and Budget, Michigan Manual 1979-1980 (Lansing: 1980), pp. 12-15.

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN, AND DATES OF INCORPORATION, BY COUNTY

County	City	Year incorporated	Village	Year incorporated
Alcona	*Harrisville	1905	Lincoln	1907
Alger	*Munising	1915	Chatham	1964
Allegan[a]	*Allegan	1907	Douglas	1870
	Fennville	1961	Hopkins	1921
	Otsego	1918	Martin	1947
	Plainwell	1934	Saugatuck	1868
	Wayland	1966		
Alpena	*Alpena	1871		
Antrim			*Bellaire	1891
			Central Lake	1895
			Elk Rapids	1900
			Ellsworth	1939
			Mancelona	1889
Arenac	Au Gres	1905	Sterling	1917
	Omer	1903	Turner	1916
	*Standish	1904	Twining	1903
Baraga			Baraga	1891
			*L'Anse	1873
Barry	*Hastings	1871	Freeport	1907
			Middleville	1867
			Nashville	1869
			Woodland	1895
Bay[b]	Auburn	1948		
	*Bay City	1865		
	Essexville	1934		
	Pinconning	1931		
Benzie	Frankfort	1935	Benzonia	1891
			*Beulah	1932
			Elberta	1894
			Honor	1915
			Lake Ann	1892
			Thompsonville	1892
Berrien	Benton Harbor	1891	Baroda	1907
	Bridgeman	1949	Berrien Springs	1867
	Buchanan	1929	Eau Claire	1891
	Coloma	1942	Galien	1879
	New Buffalo	1965	Grand Beach	1934
	Niles	1859	Michiana	1946
	*St. Joseph	1891	Shoreham	1930
	Watervliet	1925	Stevensville	1893
			Three Oaks	1867
Branch	Bronson	1934	Quincy	1858
	*Coldwater	1861	Sherwood	1887
			Union City[c]	1869
Calhoun[c]	Albion	1885	Athens	1895
	Battle Creek	1859	Burlington	1869
	*Marshall	1859	Homer	1871
	Springfield	1952	Tekonsha	1877
Cass	Dowagiac	1877	*Cassopolis	1863
			Edwardsburg	1912
			Marcellus	1879
			Vandalia	1875

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN, AND DATES OF INCORPORATION, BY COUNTY (cont.)

County	City	Year incorporated	Village	Year incorporated
Charlevoix	Boyne City	1907	Boyne Falls	1893
	*Charlevoix	1905		
	East Jordan	1911		
Cheboygan	*Cheboygan	1889	Mackinaw City[d]	1883
			Wolverine	1903
Chippewa	*Sault Ste. Marie	1887	Detour	1899
Clare	Clare	1891	Farwell	1879
	*Harrison	1891		
Clinton[e]	De Witt	1965	Eagle	1887
	*St. Johns	1904	Elsie	1885
			Fowler	1885
			Maple Rapids	1881
			Ovid	1869
			Westphalia	1883
Crawford	*Grayling	1935		
Delta	*Escanaba	1883	Garden	1886
	Gladstone	1889		
Dickinson	*Iron Mountain	1889		
	Kingsford	1947		
	Norway	1891		
Eaton[e]	*Charlotte	1871	Bellevue	1867
	Eaton Rapids	1881	Dimondale	1906
	Grand Ledge	1893	Mulliken	1903
	Olivet	1958	Sunfield	1899
	Potterville	1963	Vermontville	1871
Emmet[d]	Harbor Springs	1932	Alanson	1905
	*Petoskey	1895	Pellston	1907
Genesse[f]	Burton	1972	Gaines	1875
	Clio	1928	Goodrich	1957
	Davison	1939	Linden	1871
	Fenton	1964	Montrose	1899
	*Flint	1855	Otisville	1877
	Flushing	1864		
	Grand Blanc	1930		
	Mount Morris	1930		
	Swartz Creek	1959		
Gladwin	Beaverton	1903		
	*Gladwin	1893		
Gogebic	Bessemer	1889		
	Ironwood	1889		
	Wakefield	1919		
Grand Traverse	*Traverse City	1895	Fife Lake	1889
			Kingsley	1890
Gratiot	Alma	1905	Ashley	1887
	*Ithaca	1961	Breckenridge	1908
	St. Louis	1891	Perrinton	1891
Hillsdale	*Hillsdale	1869	Allen	1951
	Litchfield	1970	Camden	1899
	Reading	1934	Jonesville	1855
			Montgomery	1906
			North Adams	1881
			Waldron	1905

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN, AND DATES OF INCORPORATION, BY COUNTY (cont.)

County	City	Year incorporated	Village	Year incorporated
Houghton	Hancock	1903	Calumet	1875
	*Houghton	1970	Copper City	1917
			Lake Linden	1885
			Laurium	1889
			South Range	1906
Huron	*Bad Axe	1905	Caseville	1898
	Harbor Beach	1910	Elkton	1897
			Kinde	1903
			Owendale	1905
			Pigeon	1902
			Port Austin	1887
			Port Hope	1887
			Port Hope	1887
			Sebawaing	1879
			Ubly	1896
Ingham	East Lansing	1907	Dansville	1867
	Lansing[e]	1859	Stockbridge	1889
	Leslie	1968	Webberville	1879
	*Mason	1875		
	Williamston	1945		
Ionia	Belding	1893	Clarksville	1925
	*Ionia	1873	Hubbardston[e]	1867
	Portland	1969	Lake Odessa	1889
			Lyons	1859
			Muir	1871
			Pewamo	1871
			Saranac	1869
Iosco	East Tawas	1895		
	*Tawas City	1895		
	Whittemore	1907		
Iron	Caspian	1950	Alpha	1914
	*Crystal Falls	1899	Mineral Hills	1919
	Gaastra	1949		
	Iron River	1926		
	Stambaugh	1923		
Isabella	*Mt. Pleasant	1889	Rosebush	1968
			Shepherd	1889
Jackson[g]	*Jackson	1857	Brooklyn	1879
			Concord	1871
			Grass Lake	1871
			Hanover	1885
			Parma	1864
			Springport	1883
Kalamazoo	Galesburg	1931	Augusta	1869
	*Kalamazoo	1883	Climax	1899
	Parchment	1939	Richland	1871
	Portage	1963	Schoolcraft	1866
			Vicksburg	1871
Kalkaska			*Kalkaska	1887
Kent	Cedar Springs	1959	Caledonia	1888
	East Grand Rapids	1927	Casnovia[h]	1875

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN, AND DATES OF INCORPORATION, BY COUNTY (cont.)

County	City	Year incorporated	Village	Year incorporated
Kent (cont.)	*Grand Rapids	1850	Kent City	1908
	Grandville	1933	Sand Lake	1878
	Kentwood	1967	Sparta	1883
	Lowell	1960		
	Rockford	1935		
	Walker	1962		
	Wyoming	1959		
Keweenaw*			Ahmeek	1909
Lake			*Baldwin	1887
			Luther	1893
Lapeer[i]	Imlay City	1970	Almont	1855
	*Lapeer	1869	Clifford	1891
			Columbiaville	1879
			Dryden	1887
			Metamora	1885
			North Branch[f]	1881
			Otter Lake	1883
Leelanau*			Empire	1895
			Northport	1903
			Suttons Bay	1898
Lenawee	*Adrian	1853	Addison	1893
	Hudson	1893	Blissfield	1875
	Morenci	1934	Britton	1896
	Tecumseh	1954	Cement City[g]	1953
			Clayton	1870
			Clinton	1838
			Deerfield	1873
			Onsted	1907
Livingston	Brighton	1928	Fowlerville	1871
	*Howell	1914	Pinkney	1883
Luce			*Newberry	1885
Mackinac	Mackinac Island	1899		
	*St. Ignace	1883		
Macomb[j]	Center Line	1936	Armada	1867
	East Detroit	1929	New Haven	1869
	Fraser	1956	Romeo	1838
	Memphis[k]	1953		
	*Mount Clemens	1879		
	New Baltimore	1931		
	Richmond	1966		
	Roseville	1958		
	St. Clair Shores	1951		
	Sterling Heights	1968		
	Utica	1937		
	Warren	1957		
Manistee	*Manistee	1869	Bear Lake	1893
			Copemish	1891
			East Lake	1913
			Kaleva	1948
			Onekama	1891
Marquette	Ishpeming	1873		
	*Marquette	1871		
	Negaunee	1873		

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN,[a] AND DATES OF INCORPORATION, BY COUNTY (cont.)

County	City	Year incorporated	Village	Year incorporated
Mason	*Ludington	1873	Custer	1895
	Scottville	1907	Fountain	1913
			Freesoil	1915
Mecosta	*Big Rapids	1869	Barryton	1907
			Mecosta	1883
			Morley	1870
			Stanwood	1907
Menominee	*Menominee	1883	Daggett	1902
	Stephenson[b]	1869	Powers	1915
Midland	Coleman[b]	1905	Sanford	1963
	*Midland	1887		
Missaukee	*Lake City	1932		
	McBain	1907		
Monroe[1]	Luna Pier	1963	Carleton	1911
	*Monroe	1837	Dundee	1855
	Petersburg	1969	Estral Beach	1926
			Maybee	1899
			South Rockwood	1955
Montcalm	Carson City	1960	Edmore	1879
	Greenville	1871	Howard City	1873
	*Stanton	1881	Lakeview	1881
			McBride	1883
			Pierson	1873
			Sheridan	1877
Montmorency*			Hillman	1891
Muskegon[n,o]	Montague	1935	Fruitport	1891
	Muskegon	1869	Lakewood Club	1967
	Muskegon Heights	1903	Ravenna	1922
	North Muskegon	1891		
	Norton Shores	1968		
	Roosevelt Park	1946		
	Whitehall	1943		
Newaygo[m]	Fremont	1911		
	Grant	1971		
	Newaygo	1968		
	*White Cloud	1950		
Oakland	Auburn Hills	1983	Beverly Hills	1958
	Berkley	1932	Bingham Farms	1955
	Birmingham	1933	Clarkston	1884
	Bloomfield Hills	1933	Franklin	1954
	Clawson	1940	Holly	1865
	Farmington	1926	Lake Angelus	1930
	Farmington Hills	1973	Lake Orion	1859
	Ferndale	1927	Leonard	1889
	Hazel Park	1942	Milford	1869
	Huntington Woods	1932	Ortonville	1902
	Keego Harbor	1955	Oxford	1876
	Lathrup Village	1953	Wolverine Lake	1954
	Madison Heights	1955		
	Northville[j]	1955		
	Novi	1969		
	Oak Park	1945		
	Orchard Lake Village	1964		
	Pleasant Ridge	1928		

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN, AND DATES OF INCORPORATION, BY COUNTY (cont.)

County	City	Year incorporated	Village	Year incorporated
Oakland (cont.)	*Pontiac	1861		
	Rochester	1967		
	Rochester Hills	1984		
	Royal Oak	1921		
	Southfield	1958		
	South Lyon	1930		
	Sylvan Lake	1947		
	Troy	1955		
	Walled Lake	1954		
	Wixom	1958		
Oceana	*Hart	1946	Hesperia[m]	1883
			New Era	1948
			Pentwater	1867
			Rothbury	1966
			Shelby	1885
			Walkerville	1908
Ogemaw	Rose City	1905	Prescott	1947
	*West Branch	1905		
Ontonagon			*Ontonagon	1885
Osceola	Evart	1938	Hersey	1875
	*Reed City	1932	LeRoy	1883
			Marion	1889
			Tustin	1893
Oscoda[n]				
Otsego	*Gaylord	1922	Vanderbilt	1901
Ottawa[o]	Coopersville	1967	Spring Lake	1869
	Ferrysburg	1963		
	*Grand Haven	1867		
	Holland[a]	1867		
	Hudsonville	1857		
	Zeeland	1907		
Presque Isle	Onaway	1903	Millersburg	1901
	*Rogers City	1945	Posen	1907
Roscommon			*Roscommon	1882
Saginaw	Frankenmuth	1959	Birch Run	1955
	*Saginaw	1857	Chesaning	1869
	Zilwaukee	1964	Merrill	1889
			Oakley	1887
			St. Charles	1874
St. Clair[k]	Algonac	1966	Capac	1873
	Marine City	1887	Emmet	1883
	Marysville	1924		
	*Port Huron	1857		
	St. Clair	1858		
	Yale	1905		
St. Joseph	Sturgis	1895	Burr Oak	1857
	Three Rivers	1895	*Centreville	1837
			Colon	1904
			Constantine	1837
			Mendon	1875
			White Pigeon	1837
Sanilac	Brown City[i]	1907	Applegate	1903
	Croswell	1905	Carsonville	1887
	*Sandusky	1905	Deckerville	1893

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN, AND DATES OF INCORPORATION, BY COUNTY (cont.)

County	City	Year incorporated	Village	Year incorporated
Sanilac(cont)			Forestville	1895
			Lexington	1855
			Marlette	1881
			Melvin	1907
			Minden	1882
			Peck	1903
			Port Sanilac	1877
Schoolcraft	*Manistique	1901		
Shiawassee	*Corunna	1869	Bancroft	1883
	Durand	1933	Byron	1873
	Laingsburg	1951	Lennon[f]	1973
	Owosso	1859	Morrice	1884
	Perry	1964	New Lathrop	1947
			Vernon	1871
Tuscola	Vassar	1945	Akron	1911
			Caro	1871
			Cass City	1883
			Fairgrove	1901
			Gagetown	1887
			Kingston	1893
			Mayville	1887
			Millington	1877
			Reese	1887
			Unionville	1879
Van Buren	Bangor	1968	Bloomingdale	1881
	Gobles	1957	Breedsville	1883
	Hartford	1964	Decatur	1861
	South Haven	1902	Lawrence	1869
			Lawton	1858
			Mattawan	1960
			*Paw Paw	1859
Washtenaw	*Ann Arbor	1851	Barton Hills	1973
	Milan[i]	1967	Chelsea	1864
	Saline	1931	Dexter	1855
	Ypsilanti	1858	Manchester	1867
Wayne[j]	Allen Park	1957	Grosse Pointe Shores[j]	1911
	Belleville	1946		
	Dearborn	1927		
	Dearborn Heights	1963		
	*Detroit	1806		
	Ecorse	1942		
	Flat Rock	1965		
	Garden City	1933		
	Gilbralter	1961		
	Grosse Pointe	1934		
	Grosse Pointe Farms	1949		
	Grosse Pointe Park	1950		
	Grosse Pointe Woods	1950		
	Hamtramck	1921		
	Harper Woods	1951		
	Highland Park	1918		
	Inkster	1964		
	Lincoln Park	1925		

TABLE IX-5. CITIES AND VILLAGES IN MICHIGAN, AND DATES OF INCORPORATION, BY COUNTY (cont.)

County	City	Year incorporated	Village	Year incorporated
Wayne(cont.)	Livonia	1950		
	Melvindale	1933		
	Plymouth	1932		
	River Rouge	1922		
	Riverview	1959		
	Rockwood	1964		
	Romulus	1970		
	Southgate	1958		
	Taylor	1968		
	Trenton	1957		
	Wayne	1960		
	Westland	1966		
	Woodhaven	1965		
	Wyandotte	1867		
Wexford	*Cadillac	1877	Buckley	1907
	Manton	1924	Harrietta	1891
			Mesick	1901

SOURCE: Michigan Department of Management and Budget, Michigan Manual 1979-1980 (Lansing: 1980), pp. 436-479.

NOTE: *Indicates county seat except for Keweenaw, Leelanau, Montmorency, and Oscoda counties. In Keweenaw, Eagle River, an unincorporated place, is the county seat. In Leelanau, Leland, an unincorporated place, is the county seat. In Montmorency, Atlanta, an unincorporated place, is the county seat. In Oscoda, Mio, an unincorporated place, is the county seat.

a. Holland lies in Ottawa and Allegan counties.
b. Midland lies in Midland and Bay counties.
c. Union City lies in Branch and Calhoun counties.
d. Mackinaw City lies in Cheboygan and Emmet counties.
e. Hubbardston lies in Clinton and Ionia counties; Lansing extends but has no population in Clinton County. Lansing has population in Ingham and Eaton counties only.
f. Lennon lies in Shiawassee and Genesee counties; Otter Lake lies in Lapeer and Genesee counties.
g. Cement City lies in Lenawee and Jackson counties.
h. Casnovia lies in Kent and Muskegon counties.
i. Brown City lies in Sanilac and Lapeer counties.
j. Grosse Pointe Shores lies in Wayne and Macomb counties; Northville lies in Oakland and Wayne counties.
k. Memphis lies in Macomb and St. Clair counties.
l. Milan lies in Washtenaw and Monroe counties.
m. Hesperia lies in Oceana and Newaygo counties.
n. There are no cities or villages in Oscoda County. Mio is the county seat.
o. Fruitport lies in Muskegon and Ottawa counties.

TABLE IX-6. NUMBER OF LOCAL GOVERNMENTAL UNITS IN MICHIGAN AND THE UNITED STATES, BY TYPE: 1952, 1957, 1962, 1967, 1972, 1977, AND 1982

Type	1952	1957	1962	1967	1972	1977	1982
				Michigan			
Counties	83	83	83	83	83	83	83
Municipalities	489	498	509	522	532	531	532
Townships	1,264	1,262	1,259	1,253	1,248	1,245	1,245
Special districts	84	102	99	110	139	168	184
School districts	4,845	3,214	1,866	935	647	606	601
TOTAL	6,766	5,159	3,816	2,903	2,649	2,633	2,646
				United States			
Counties	3,049	3,047	3,043	3,049	3,044	3,042	3,041
Municipalities	16,778	17,167	17,997	18,043	18,517	18,862	19,083
Townships	17,202	17,214	17,144	17,105	16,991	16,822	16,748
Special districts	12,319	14,423	18,323	21,264	23,885	25,962	28,733
School districts	67,346	50,453	34,678	21,782	15,781	15,032	15,032
TOTAL	116,743	102,353	91,185	81,248	78,218	79,913	82,688

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1945 through 1975 (Washington, D.C.: annually), Table 415 (1975), and 1977 Census of Governments, Preliminary Report No. 1, Governmental Units in 1977 and 1982 (Washington, D.C.), pp. 1, 6.

TABLE IX-7. NUMBER OF DEMOCRATIC AND REPUBLICAN VOTES FOR PRESIDENT AND UNITED STATES SENATOR, BY COUNTY: GENERAL ELECTION NOVEMBER 6, 1984

	President & Vice President		Senator	
County	Mondale Ferraro (Dem)	Reagan Bush (Rep)	Carl Levin (Dem)	Jack Lousma (Rep)
Alcona	1,616	3,223	2,232	2,358
Alger	2,018	2,175	2,471	1,514
Allegan	8,389	23,762	9,992	20,545
Alpena	5,136	8,212	6,890	5,729
Antrim	2,507	5,726	3,186	4,649
Arenac	2,436	3,483	3,091	2,488
Baraga	1,818	1,965	2,241	1,362
Barry	5,898	14,245	7,352	11,682
Bay	22,597	26,198	28,306	18,447
Benzie	1,866	3,590	2,116	3,069
Berrien	21,228	43,160	23,020	37,908
Branch	3,860	11,004	5,301	8,825
Calhoun	20,313	34,470	26,887	24,864
Cass	6,634	11,647	6,869	9,988
Charlevoix	3,175	6,355	4,107	5,311
Cheboygan	3,358	6,053	4,309	4,452
Chippewa	4,575	8,135	6,001	5,969
Clare	3,764	6,587	5,175	5,025
Clinton	6,226	17,387	9,003	13,670
Crawford	1,558	3,303	2,191	2,655
Delta	7,934	8,952	9,795	6,049
Dickinson	5,614	6,880	6,436	4,727
Eaton	10,290	27,720	14,541	21,432
Emmet	3,254	7,760	4,637	6,247
Genessee	89,491	92,943	109,160	70,438
Gladwin	3,368	5,401	4,522	4,033
Gogebic	5,554	4,006	5,933	2,662
Grand Traverse	7,271	18,036	9,592	14,646
Gratiot	4,000	10,456	5,633	8,146
Hillsdale	3,616	12,063	5,327	9,625
Houghton	6,434	8,652	8,063	6,208
Huron	3,966	11,073	5,406	8,321
Ingham	46,411	68,753	60,081	53,091
Ionia	5,735	14,162	7,449	11,156
Iosco	3,850	7,907	5,346	6,058
Iron	3,559	3,468	3,992	2,629
Isabella	6,435	12,215	8,820	9,361
Jackson	18,340	40,133	24,365	32,170
Kalamazoo	32,460	58,327	39,080	47,772
Kalkaska	1,595	3,623	2,065	2,882
Kent	66,238	137,417	85,056	114,764
Keweenaw	628	599	753	418
Lake	1,845	2,125	2,209	1,711
Lapeer	7,800	19,222	11,331	15,388
Leelanau	2,498	5,356	3,058	4,465

TABLE IX-7. NUMBER OF DEMOCRATIC AND REPUBLICAN VOTES FOR PRESIDENT AND UNITED STATES SENATOR, BY COUNTY: GENERAL ELECTION NOVEMBER 6, 1984 (cont.)

	President & Vice President		Senator	
County	Mondale Ferraro (Dem)	Reagan Bush (Rep)	Carl Levin (Dem)	Jack Lousma (Rep)
Lenawee	11,012	22,409	13,705	17,575
Livingston	10,720	31,846	15,811	25,381
Luce	833	1,715	1,142	1,184
Mackinac	1,949	3,627	2,662	2,589
Macomb	97,816	194,300	138,400	143,099
Manistee	3,917	6,328	4,567	5,221
Marquette	14,074	14,196	17,198	9,989
Mason	3,803	8,202	5,039	6,675
Mecosta	4,048	9,023	5,268	7,339
Menominee	4,425	6,618	5,117	4,667
Midland	10,769	21,521	14,821	17,012
Missaukee	1,256	3,970	1,762	3,359
Monroe	19,617	29,419	24,241	21,656
Montcalm	5,491	13,109	6,769	10,696
Montmorency	1,387	2,913	1,851	2,158
Muskegon	25,247	39,355	32,402	30,106
Newaygo	4,496	10,636	5,586	8,778
Oakland	150,286	306,050	214,695	229,499
Oceana	2,865	6,405	3,687	5,067
Ogemaw	3,132	4,901	4,238	3,353
Ontonagon	2,350	2,464	2,766	1,745
Osceola	2,127	5,923	2,754	4,748
Oscoda	951	2,239	1,364	1,763
Otsego	2,117	4,639	2,785	3,638
Ottawa	15,000	60,142	19,466	52,899
Presque Isle	2,481	4,207	3,462	3,063
Roscommon	3,359	6,419	4,572	4,713
Saginaw	38,420	51,495	48,603	39,005
St. Clair	15,998	36,114	23,511	27,832
St. Joseph	5,795	15,405	6,920	12,524
Sanilac	4,126	12,627	5,439	10,284
Schoolcraft	1,920	2,139	2,386	1,387
Shiawassee	9,514	18,756	13,030	14,018
Tuscola	6,212	14,698	8,337	11,115
Van Buren	8,853	16,426	10,022	13,814
Washtenaw	55,084	58,736	64,338	47,238
Wayne	496,632	367,391	569,016	279,709
Wexford	3,398	7,279	4,709	5,495
TOTAL	1,529,638	2,251,571	1,915,831	1,745,302

SOURCE: Michigan Department of Management and Budget, special release.

The Toledo War

("An Ohio Idea.")

What is known as the Toledo War was one of a very peculiar and harmless character, beginning in perspective and ending without collision, fight, or casualty; yet exhibiting on the start on both sides a maximum of bombastic threatenings, prospective of possible coming war, with bloody battles and direful consequences, and although it brought out on the part of Michigan and most formidable military demonstration incident to a dispute, between States as to territory occurring in the United States, it ended in a wordy peace, which has resulted in handing down the whole affair, both civil and military, in underserved traditional and written ridicule.

In the beginning of 1835 the State of Ohio undertook to enforce jurisdiction over certain territory south of the Maumee Bay, which was then considered as a portion of Michigan Territory, and claimed as such. The legislative council of Michigan on February 12, of that year, passed an act "to prevent the exercise of foreign jurisdiction within the limits of the Territory of Michigan," making it a penal offense for any one to accept or exercise any public office in any part of the Territory, except by commission from the United States or Michigan. On the 19th of the same month Acting Governor Mason, in a letter of instructions in detail to General Joseph W. Brown, then commanding a division of the Michigan militia, says: "Under existing circumstances but one of two courses is left for Michigan to pursue. If Ohio continues to persevere in the attempt to wrest from us our territory, as she now meditates,--in voluntary submission to encroachment upon our rights, or firm and determined opposition to her,--the latter though painful to us, is preferable to the former, and must be decided upon. With this in view, I have, with due regard to the important task assigned you, concluded to give you the control of the measures necessary to be adopted in consequence of the peculiar and unpleasant relations with I fear may soon exist between the civil authorities of Ohio and those of this Territory."

General Brown, under the same date, issues the following address to the militia;

"Fellow Citizens,--A cause which has the sanction of the highest authority in the nation, as well as the laws of our Territory, must be sustained by us, and will meet the approbation of all our common country who respect our institutions and who are capable of appreciating the just claims of the injured and weaker party when they are sought to be trodden down and trampled upon by mere physical force. We cannot submit to an invasion of our soil; we are determined to repel with force whatever strength the State of Ohio may attempt to bring into our Territory to sustain her usurpations, and let the consequences which may follow rest on the guilty heads of those who attempt to deprive us by force of our rightful jurisdiction."

On the 23d following the Ohio Legislature asserting the right of that State and declaring that measures should be taken to establish it, Governor Lucas placed a Major General of militia in command, with instructions to enroll the militia of the districts in dispute for the purpose of protection, while running a boundary line which Ohio insisted on accomplishing. The matter of boundary had been laid before Congress, but failed to receive attention, and the acting Governor of Michigan, considering his Territory in possession, ordered General Brown to hold himself in readiness to resist any attempt of Ohio to carry out the threatened measures, the right of Michigan being sustained by the Attorney General of the United States, and also by the President and his advisers. After a futile attempt at conciliation and considerable delay, Ohio still persisting in her claim, the President intimated by letter that if that State attempted running the line with an armed force he would have to interfere to prevent it by the power of the United States. Still affairs remained quiet, with an occasional difficulty, but without any military demonstration. It was ascertained, however, that in accordance with the views of the Ohio Legislature a new county (Lucas) was to be organized over the disputed territory, and that a court was to be opened at Toledo on the 7th of September, 1835, and that this move was to be protected by Ohio troops. To meet this contemplated action Governor Mason ordered out of Michigan forces, and with them in person moved on Toledo; but on arriving there no opposing force was encountered and he peacefully took possession of the place, holding it for four days, when the Michigan troops, under an order of September 10th, returned and were disbanded at their various rendezvous, not having fired a gun at an enemy nor lost a man.

Ohio finally succeeded by strong political influence in obtaining the disputed ground, but only with what was claimed to have been the consent of Michigan, in lieu of which she received what is known as the Upper Peninsula.

Following is a statement of the officers and troops organized and called out by the Governor to take a part in the boundary quarrel referred to, and who were paid by the State for their services:

Governor, Stevens T. Mason. Staff: Colonels Isaac S. Rowland, Kintsign Pritchette, John Chester.

Major General Joseph W. Brown, commanding; Alpheus Felch, Aid-de-Camp; Charles W. Whipple, Division Inspector; Daniel S. Bacon, Division Quartermaster.

Brigadier General Martin Davis commanding 2d Brigade. E.C. Eaton, Brigade Major; J.E. Field, Brigade Quartermaster; Isaac J. Ullman, Brigade Inspector.

FIRST REGIMENT RIFLES.

Field and Staff.

J.D. David, Colonel; John Beedon, Jr., Major; F.L. Marcham, Surgeon; Peter Fralick, Paymaster; H.A. Noyes, Adjutant; Wm. McCurdy, Quartermaster.

Company Officers.

Captains, Albert Strumm, Richard Boughton, Charles M.McCormick, Eli Derby, Emery Richardson, A.D. Crane, James M. Murray, Horace Leek, S.B. Newton (supernumerary in charge of baggage train).

First Lieutenants, Ezra Bradner, Samuel Gates, Isaac Hiscock, Jr., Silas Dickenson, J.S. Lacey, Jacob I . Foot, Jared. B. Cornish, Cyrus Burnett.

Second Lieutenants, Enos Bradner, Wm. A. Ballard, Samuel B. Hill, Edwin Bond, Henry B.H. Secord, Harvey Barton, Wm. Brewner, Norman C. Wells.

This command was made up of portions of eight companies, varying in size, and numbering 189 officers and men in the aggregate.

SECOND REGIMENT INFANTRY.

Field and Staff.

Warner Wing, Colonel; Apulus Drown, Major; Wm. W. Smith, Surgeon; Lewis E. Bradley, Adjutant; Almon H. White, Quartermaster.

Company Officers

Captains, George W. Darrah, Joseph Morass, Gabriel Bissonette, Heman N. Splading, Noyes W. Woodworth, John Bradford.

First Lieutenants, Levi Lewis, Francis Cousins, George C. Root, David Hall.

Second Lieutenants, Nelson White, John B. Derby.

Ensigns, James H. Withington, Peter Moran.

The force consisted of parts of seven companies, numbering 131 officers and men.

EIGHTH REGIMENT INFANTRY.

Field and Staff.

Davis Smith, Colonel; Samuel B. Evans, Lieutenant Colonel; Derastus Torrey, Major; Michigan A. Patterson, Surgeon, Alonzo Cressy, Ass't Surgeon; Joseph E. Hall, Adjutant; Sydney F. Blanchard, Quartermaster; Thomas Sisson, Assistant Quartermaster; Hugh Hillock, Assistant Quartermaster.

Company Officers.

Captains, Reuben N. Hall, John Densmore, Peleg Pettis, Horatio N. Baldwin, Ebenezer Davis, Augustus Montgomery, Jedediah Raymond, Milton Hoag.

First Lieutenants, Eli Chatfield, Asa G. Edward, Guy Carpenter.

Second Lieutenants, Joseph N. Chandler, John J. Adam, Adam Miner, J. Swick, Daniel McRoberts.

Ensigns, Benjamin Tibbetts, Simeon Spencer.

This regiment had eight small companies, 238 strong, in the aggregate.

OAKLAND DETACHMENT.

Field and Staff.

Frederick A. Sprague, Major; Andrew D. Voorheis, Surgeon; Israel B. Richardson, Surgeon; Benjamin Phelps, Paymaster; John L. Brownell, Quartermaster.

Company Officers.

Captains, Orange Foot, George Brownell, Linus Cone, John W. Ingram, Haron Haskins.

First Lieutenants, Mason I. James, Walter Drake, Nelson Rosevelt, Phineas W. Jenney, Edward W. Peck.

Second Lieutenants, Alanson Goodrich, William Lee, Henry Sprague, Calvin Chapel, Hiram Carhart. Chester Goodrich, Cornet.

This detachment was 180 strong, a portion of it being mounted as calvary.

BUCKLIN'S DETACHMENT INFANTRY.

Field and Staff.

James Bucklin, Major; James Dunn, Adjutant.

Company Officers.

Captains N.P. Thayer, John F. Rupley, Jonas Goodell, Thomas Geldard, Martin Greenman, Asahel L. Bird, Chas. M. Bull, George R. Griswold.

First Lieutenants, Paul Rice, John Thomas, Sheldin Beckwith, Lewis Fuller, Geo. C. Bates, Sidney L. Rood.

Second Lieutenants, Jasper Thomas, Jacob M. Howard, Thomas Dare.

Ensign, Joseph Y. Davis.

This command had an aggregate of 137 officers and men.

SHELBY VOLUNTEERS, ARTILLERY.

Captains, Orson Sheldon, A. White, Erastus Day, J.O. Ferris, N.W. Wadsworth.

Lieutenants, James St. John, Wm. H. Webster, Elias O. Maccall.

Ensigns, Gurdon C. Leech, C.C. Douglass.

This artillery force was made up of gun squads, 57 officers and men.

DETROIT LIGHT DRAGOONS.

First Lieutenant, John Wright; Second Lieutenant, Simeon Brown; Third Lieutenant, James Hanmer.

This company was 20 strong in the aggregate.

LIGHT HORSE.

Captain, Joseph Wood; First Lieutenant, James McBride; Second Lieutenant, Burton Hotchkiss; Stephen Crego, Cornet.

This company numbered 40 officers and men.

On the pay roll of these troops are found the names of the following officers not included in any of the commands mentioned, but it is presumed that they were on some duty connected with the expedition referred to, as Adjutant General Jno. E. Schwarts certifies that they were entitled to pay for services rendered:

John Montgomery, Major 1st battalion Heavy Artillery; Joseph Lapham, Adjutant; Abel Parkhurst, Paymaster; Chas. C. Jeffers, Surgeon; Horace Welch Quartermaster; Peter Slingerland, Captain; Morell Goodrich, First Lieutenant; William Colby, Second Lieutenant; Ezra Higby, Third Lieutenant; Jesse W. Taylor, Captain Artillery; Richard Gorton, Assistant Surgeon; Wm. Thompson, Surgeon; L. Jenney, Assistant Surgeon; C.C. Mascall, Colonel; H. Hemans, Assistant Surgeon; C.C. Parks, Lieutenant; M.J. Bacon, Aid-de-Camp. With these officers are included a number of noncommissioned officers and privates, making in all 48 of an aggregate.

These troops, numbering in all 1,055, were paid by the State for their services $13,411.43, upon a certificate of Daniel Goodwin, Quartermaster General, by Henry Howard, State Treasurer, by authority of Robert Abbott, Auditor General, under acts of the Legislature approved March 28th and July 26th, 1836.

X. GOVERNMENTAL FINANCE AND EMPLOYMENT

Data on the federal tax burden are rough estimates prepared by the Tax Foundation, Inc., a nonprofit research foundation. In developing figures for each state, the Tax Foundation allocates individual income tax liabilities on the basis of data reported by the Internal Revenue Service in its Statistics of Income series, the same documents from which Tables X-3 and X-4 were developed. In the distribution of personal and property income, the assumption is that one-half of the levy is passed on to customers through prices, and the other half is shifted backward to property owners in general. Property income is a component of personal income, accounting for roughly one-seventh of the aggregate. Estate and gift taxes are assumed to be distributed according to the previous six years' total of estate and gift taxes reported in the *Annual Report of the Commissioner of Internal Revenue*. Excise taxes on alcoholic beverages are assumed to follow the geographic pattern of consumption of distilled spirits, malt beverages, and wines. The state-by-state distribution of tobacco taxes is patterned after population. Similar procedures are used to estimate other federal revenues, in each case employing the most appropriate allocator.

State and local revenue data are collected by the Bureau of the Census in its quinquennial Census of Governments, the latest of which covers 1977. For interim years, the Bureau of the Census develops statistics based on a sample of local governments in each state, along with reports from the District of Columbia and each of the fifty states. No agency, public or private, assesses the geographic burden of state and local revenues in a manner parallel to the Tax Foundation's assessment of the federal tax burden. This means that the Michigan Single Business Tax, for example, is assumed to be borne entirely by residents of this state (Table X-2 and so forth), although it is certainly exported, to some extent, with every car and truck that rolls from an assembly line destined for another state or country. Similarly, part of the well head taxes levied in Texas, Louisiana, Oklahoma, and Wyoming are paid, in the final analysis, by Michiganians and other Americans.

For a number of reasons, the data published by the Bureau of the Census vary from those published in the Michigan State Tax Commission's *State of Michigan Financial Reports*, and by other in-state sources. The major reason for frequent disagreement is the inclusion of publicly owned community colleges, colleges, and universities in the Bureau of the Census definition of government. In Tables X-7 and X-8, current charges for education include student tuition and fees paid to the state and locally operated colleges and universities; Tables X-14 and X-15 include expenditures of these institutions (pay to faculty, and so forth). In Table X-9, student fees, tuition, and other revenues derived independently by higher education are not included as part of state revenues; Table X-16 reports only expenditures for higher education that the state spends, not the total amount expended by the institutions themselves. Interested readers are encouraged to consult the chapter on education.

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TABLE X-1. AVERAGE EMPLOYMENT IN GOVERNMENT IN MICHIGAN AND THE UNITED STATES: 1956-1985.

(In thousands)

Year	Michigan			United States		
	Federal	State	Local	Federal	State	Local
1956	42.8	64.4	206.2	2,209	1,250	3,819
1957	43.4	65.4	207.1	2,217	1,328	4,071
1958	44.0	66.5	209.0	2,191	1,415	4,232
1959	44.5	69.8	210.9	2,233	1,484	4,366
1960	46.8	72.6	213.9	2,270	1,536	4,547
1961	47.9	73.8	215.7	2,279	1,607	4,708
1962	47.5	73.9	221.8	2,340	1,668	4,881
1963	49.7	75.2	234.9	2,358	1,747	5,121
1964	49.0	78.4	245.9	2,348	1,856	5,392
1965	51.1	85.0	259.4	2,378	1,996	5,700
1966	54.3	95.9	282.8	2,564	2,141	6,080
1967	57.1	99.8	298.2	2,719	2,302	6,371
1968	58.5	104.4	308.4	2,737	2,442	6,660
1969	56.8	111.9	325.8	2,758	2,533	6,904
1970	57.7	115.9	333.0	2,731	2,664	7,158
1971	54.8	117.8	336.8	2,696	2,747	7,437
1972	55.2	122.4	349.0	2,684	2,859	7,790
1973	55.0	123.9	355.4	2,663	2,923	8,146
1974	56.2	127.5	378.8	2,724	3,039	8,407
1975	56.1	132.6	394.4	2,748	3,179	8,758
1976	55.5	135.1	403.9	2,733	3,273	8,865
1977	54.7	136.8	405.2	2,727	3,377	9,023
1978	54.6	143.6	413.2	2,753	3,474	9,446
1979	56.7	147.7	416.6	2,773	3,541	9,633
1980	58.2	152.3	417.3	2,866	3,610	9,765
1981	55.9	147.8	394.7	2,772	3,640	9,619
1982	55.9	142.2	379.7	2,739	3,640	9,458
1983	55.9	140.5	373.4	2,774	3,662	9,434
1984	56.0	140.0	372.0	2,807	3,734	9,482
1985	58.0	143.0	379.0	2,875	3,848	9,692

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: monthly), March, 1985, Tables B-1; and Supplement to Employment and Earnings (Washington, D.C.: June, 1986).

TABLE X-3. ORIGIN AND ALLOCATION, BY LEVEL OF GOVERNMENT, OF GENERAL REVENUE OF MICHIGAN STATE AND LOCAL GOVERNMENTS: FISCAL YEARS 1964-1984

(In millions of dollars)

Year	Originating level of government			Final recipient level of government		Total general revenue
	Federal	State	Local	State	Local	
1963-64	404.3	1,408.6	1,312.3	1,144.0	1,981.2	3,125.2
1964-65	426.2	1,545.5	1,398.6	1,255.2	2,115.1	3,370.3
1965-66	471.9	1,724.0	1,528.6	1,347.0	2,377.6	3,724.6
1966-67	593.6	1,835.4	1,623.5	1,435.5	2,617.0	4,052.5
1967-68	637.6	2,226.6	1,800.3	1,868.2	2,796.2	4,664.5
1968-69	711.0	2,640.1	2,053.9	2,160.3	3,244.7	5,405.0
1969-70	818.2	2,769.7	2,330.6	2,264.5	3,654.0	5,918.5
1970-71	1,019.1	3,019.3	2,574.3	2,490.9	4,121.9	6,612.7
1971-72	1,306.9	3,572.1	3,038.9	3,121.8	4,796.2	7,918.0
1972-73	1,769.7	4,121.3	3,109.1	3,822.7	5,177.5	9,000.2
1973-74	1,845.2	4,417.1	3,538.4	3,889.5	5,911.3	9,800.8
1974-75	2,124.4	4,267.9	3,947.0	3,846.9	6,492.4	10,339.3
1975-76	2,667.3	4,607.0[a]	4,319.8	4,327.0	7,267.0	11,594.1
1976-77	2,841.1	5,763.5	4,580.3	5,192.1	7,992.8	13,184.9
1977-78	3,131.3	6,556.6	4,793.9	5,901.9	8,579.9	14,481.8
1978-79	3,399.8	7,302.0	5,408.3	6,612.8	9,497.2	16,110.0
1979-80	3,897.3	7,460.4	6,125.9	6,977.9	10,505.7	17,483.6
1980-81	4,093.8	7,908.2	6,857.1	7,934.9	10,924.2	18,859.1
1981-82	3,962.4	8,213.1	8,074.9	8,371.6	11,878.9	20,250.4
1982-83	4,069.2	9,029.7	8,249.8	9,483.6	11,865.1	21,348.7
1983-84	4,340.6	10,715.1	8,767.5	11,105.5	12,717.6	23,823.1

SOURCE: Bureau of the Census, *U.S. Census of Governments, 1972*, vol. 4, *Government Finances*, no. 5, *Compendium of Government Finances* (Washington, D.C.: 1974), Table 23, and similar census documents for 1962 (Table 25), and 1967 (Table 23); Bureau of the Census, *Governmental Finances, 1983-84* (Washington, D.C.: 1985), Series GF-84, no. 5, Table 8; and similar documents for previous years.

NOTE: Includes revenues of public institutions of higher education, exclusive of their state or local support.

a. Pertains to the fiscal year ended 30 June 1976. The 1977 fiscal year ended 30 September 1977. During the fiscal year ended 30 June 1976, state tax collections totaled $3,769,500,000. If the fiscal year had ended 30 September 1976, they would have totaled around $4,200,000,000.

TABLE X-2. STATE AND LOCAL TAX COLLECTIONS AND FEDERAL TAX BURDEN IN MICHIGAN AND THE UNITED STATES, FISCAL YEARS: 1966-1984

(Millions of dollars)

	Federal		States		Local		Total	
Fiscal year	Michigan	United States	Michigan	United States	Michigan	United States	Michigan	United States
1966	5,590	123,402	1,467.7	29,379.8	1,127.6	27,360.8	8,185.3	180,142.6
1967	n.a.	n.a.	1,530.8	31,926.0	1,184.4	29,074.0	n.a.	n.a.
1968	6,982	143,950	1,885.6	36,400.2	1,319.3	31,171.4	10,186.9	211,521.6
1969	n.a.	n.a.	2,248.8	41,930.7	1,505.4	34,781.2	n.a.	n.a.
1970	8,936	186,947	2,345.1	47,962.0	1,697.9	38,833.3	12,979.0	273,742.3
1971	n.a.	n.a.	2,543.9	51,541.2	1,876.7	43,434.0	n.a.	n.a.
1972	8,949	193,697	3,062.4	59,870.0	2,184.7	49,739.0	14,196.1	303,306.0
1973	n.a.	n.a.	3,527.6	68,069.3	2,216.9	53,032.4	n.a.	n.a.
1974	11,492	243,467	3,681.2	74,207.0	2,497.8	56,515.0	17,671.0	374,189.0
1975	n.a.	n.a.	3,486.0	80,154.9	2,757.0	61,310.1	n.a.	n.a.
1976	12,919	278,420	3,769.5[a]	89,255.5	3,049.8	67,557.4	19,738.3	435,232.9
1977	n.a.	n.a.	4,843.7	101,084.0	3,137.9	84,851.6	n.a.	n.a.
1978	17,357	389,164	5,444.9	113,260.9	3,365.9	80,380.8	26,167.8	582,805.7
1979	20,737	450,816	6,017.7	124,962.9	3,645.8	80,606.1	30,400.5	656,385.0
1980	23,394	500,950	5,947.6	137,075.2	4,008.8	86,387.5	33,350.4	724,412.7
1981	n.a.	n.a.	6,177.0	149,737.9	4,505.1	94,776.2	n.a.	n.a.
1982	24,032	597,472	6,307.2	162,657.8	5,089.6	103,641.2	35,428.8	863,771.0
1983	n.a.	n.a.	7,022.7	171,440.0	5,405.0	113,145.1	n.a.	n.a.
1984	24,014	645,043	8,568.7	196,795.2	5,728.3	123,398.6	38,311.0	965,236.8

SOURCE: Bureau of the Census, *1977 Census of Governments, Compendium of Government Finances* (Washington, D.C.: 1979), vol. 4, no. 5, Tables 3 and 47, and similar documents for 1967 (Table 23), and 1972 (Table 23); Bureau of the Census, *Governmental Finances, 1983-84* (Washington, D.C.: 1985), Table 5, and similar documents for other years between quinquennial Censuses of Governments; Tax Foundation, Inc., *Facts and Figures on Government Finance, 1958-59 through 1981* (New York: biennially), Table 101 (1980), and special release.

[a] Pertains to the fiscal year ended 30 June 1976. The 1977 fiscal year ended 30 September 1977. During the fiscal year ended 30 June 1976, state tax collections totaled $3,769,500,000. If the fiscal year had ended 30 September 1976, they would have totaled around $4,200,000,000.
n.a.: not available.

TABLE X-5. REVENUE OF LOCAL GOVERNMENTS IN MICHIGAN AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1982, 1983, AND 1984

(In millions of dollars)

Item	1972	1977	1982	1983	1984
General revenue[c]	4,853.8	7,886.6	12,195.7	12,222.7	13,116.6
Federal government	248.7	799.3	1,051.3	977.7	819.0
State government	1,566.2	2,655.9	3,069.4	2,995.3	3,530.2
Own sources	3,395.9	4,431.4	8,074.9	8,249.8	8,767.5
Taxes	2,184.7	3,137.9	5,089.6	5,405.0	5,728.3
Property	2,005.4	2,874.8	4,687.9	5,009.3	5,285.1
Individual income	135.1	187.6	295.1[b]	281.6[b]	312.9[b]
Other	44.1	75.3	106.1	113.7	130.3
Charges & miscellaneous	854.2	1,293.5	2,985.3	2,844.7	3,039.1
Current charges	586.8	950.8	1,804.6	1,879.8	2,026.8
Education	135.1	203.5	292.6	337.4	368.5
School lunch[a]	63.4	70.7	n.a.	n.a.	n.a.
Other	71.7	132.9	841.5	800.9	884.1
Hospitals	207.0	347.4	670.6	741.5	774.2
Sewerage	85.3	151.4	n.a.	n.a.	n.a.
Airports	17.6	39.5	n.a.	n.a.	n.a.
Other current charges	141.8	209.0	n.a.	n.a.	n.a.
Miscellaneous revenue	n.a.	n.a.	n.a.	964.9	1,012.3
Interest earnings	102.8	143.1	509.9	495.1	437.4
Other	90.3	155.4	670.9	469.8	574.9
Utility revenue	251.7	411.4	586.4	764.3	822.8
Water supply	152.8	239.0	n.a.	n.a.	n.a.
Electric power	59.6	137.2	n.a.	n.a.	n.a.
Transit	39.3	35.1	n.a.	n.a.	n.a.
Insurance trust revenue, Total	n.a.	n.a.	n.a.	426.5	495.8
Employee retirement	105.2	163.0	378.2	426.5	495.8
TOTAL[c]	5,210.8	8,461.0	13,160.3	13,413.5	14,435.2

SOURCE: Bureau of the Census, *U.S. Census of Governments, 1977*, vol. 4, *Government Finances*, no. 5, *Compendium of Government Finances* (Washington, D.C.: 1979), Table 47, and similar census documents for 1972 (Table 46); and Bureau of the Census, *Governmental Finances, 1981-82* (Washington, D.C.: 1983), Series GF-82, No. 5, Table 5, and *Governmental Finances, 1983-84* (Washington, D.C.: 1984), Table 5.

a. Gross sales.
b. Individual & Corporate Income.
c. Duplicative transactions between levels of government are excluded.
n.a.: not available.

TABLE X-6. REVENUE OF THE STATE OF MICHIGAN AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1982, 1983, AND 1984

(In millions of dollars)

Item	1972	1977	1982	1983	1984
General Revenue	4,688.0	7,891.6	11,441.0	12,478.9	13,395.8
Federal government[a]	1,058.2	2,042.2	2,911.1	3,091.5	3,521.6
Local government	57.6	85.8	316.8	357.7	399.0
Own sources	3,572.1	5,763.5	8,183.1	9,029.7	9,946.6
Taxes	3,062.4	4,843.7	6,307.2	7,022.7	8,568.7
Property	93.3	117.7	155.2	166.3	166.1
General sales and use	987.7	1,407.0	1,843.7	1,969.4	2,273.1
Selective sales	582.0	757.9	773.2	803.8	911.3
Motor fuel	300.8	430.4	421.9	456.5	565.0
Alcoholic beverages	72.0	80.0	96.3	96.8	98.1
Tobacco products	128.7	140.3	135.3	126.9	126.7
Motor vehicle licenses	160.6	180.3	232.3	258.8	283.1
Individual income	0	728.9	2,126.6	2,567.0	3,383.8
Charges & miscellaneous	509.8	919.8	1,905.9	2,007.1	2,146.4
Current charges	399.7	592.8	1,075.2	1,138.0	1,228.9
Education[b]	296.6	422.3	722.8	751.2	814.4
Hospitals	64.8	109.6	262.1	290.7	312.4
Sale of property	2.3	1.2	1.2	1.3	n.a.
Interest earnings	50.1	95.5	287.7	306.1	396.4
Liquor Store Revenue	306.5	338.3	422.9	406.8	408.5
Insurance Trust Revenue	477.4	1,459.4	2,723.1	3,211.4	2,027.0
Unemployment compensation[c]	247.8	967.1	1,540.5	1,698.4	586.5
Employee retirement	213.2	439.1	994.3	1,361.3	1,306.0
TOTAL	5,471.9	9,689.2	14,587.0	16,097.1	17,071.2

SOURCE: Bureau of the Census, U.S. Census of Governments, 1977, vol. 4, Government Finances, no. 5, Compendium of Government Finances (Washington, D.C.: 1972), Table 46; and Bureau of the Census, State Government Finances, 1982 (Washington, D.C.: 1983), Series GF-82, no. 3, Table 7; and State Governmental Finances, 1984, Table 7.

a. Includes federal payments to state institutions of higher education.
b. Revenues of state institutions of higher education, exclusive of payments from state and federal government.
c. Excludes revenue contributed by the Federal Government for extended and special compensation programs.

TABLE X-7. REVENUE OF STATE OF MICHIGAN, AS DEFINED BY THE STATE OF MICHIGAN (EXCLUSIVE OF REVENUES OF STATE INSTITUTIONS OF HIGHER EDUCATION), FISCAL YEARS: 1984 AND 1985

(In thousands of dollars)

Source	1984	1985
Taxes		
Sales tax	1,924,966	2,142,624
Personal income tax	3,255,595	3,264,610
Corporation income tax	12,256	4,371
Single business tax	1,280,547	1,378,424
Use tax	317,332	341,400
Cigarette tax	240,957	241,037
Beer and wine tax	51,652	52,143
Liquor excise tax	39,271	41,348
Horse race wagering tax	21,480	21,888
Intangibles tax	53,902	60,304
Inheritance tax	62,393	62,688
Telephone and telegraph company tax	113,073	110,236
Insurance company premium tax	103,401	116,994
Motor vehicle weight tax	255,862	286,683
Gasoline tax	528,924	569,687
Aviation fuel tax	3,277	3,897
Diesel fuel tax	40,430	45,429
Gas and oil severance tax	78,029	75,734
Industrial facilities tax	38,578	42,112
Watercraft registration tax	5,358	3,052
Penalties and interest-sales, income, use, and single business tax	38,724	40,900
Other taxes	5,238	5,386
TOTAL	8,471,626	8,910,956
From federal agencies:		
Dept. of Health and Human Services	2,080,454	2,067,357
Department of Education	220,306	239,628
Department of Agriculture	197,757	193,727
Department of Labor	238,453	263,179
Dept. of Housing & Urban Development	42,690	32,804
Environmental Protection Agency	11,293	15,107
Department of Transportation	287,356	308,352
Department of Energy	23,328	15,842
Department of Interior	8,808	8,460
Department of Defense	9,534	13,822
Department of Justice	3,067	1,669
Other federal agencies	38,817	34,434
TOTAL	3,161,870	3,194,386

TABLE X-7. REVENUE OF STATE OF MICHIGAN, AS DEFINED BY THE STATE OF MICHIGAN (EXCLUSIVE OF REVENUES OF STATE INSTITUTIONS OF HIGHER EDUCATION), FISCAL YEARS: 1984 AND 1985 (cont.)

(In thousands of dollars)

Source	1984	1985
From local agencies:		
Counties	87,936	77,862
Cities, villages, and townships	15,556	16,409
Colleges and universities	5,177	5,196
School districts	5,437	5,982
Multi-level governmental units	1,258	928
Other local agencies	9,293	11,684
TOTAL	124,659	118,064
From services:		
Charges for furnishing vehicle driver records	16,543	19,321
Revenue from patients, wards, and inmates	30,503	65,205
Other services	6,577	7,932
TOTAL	53,625	92,459
From licenses and permits:		
Liquor retailers', manufacturers', and wholesalers' licenses	12,041	11,850
Motor vehicle operators' and chauffeurs' licenses	15,223	16,009
Examination fees--financial institutions and insurance industry	4,442	5,078
Department of licensing and regulation licenses and permits	14,691	16,297
Concession and privilege fees--state parks	7,445	8,427
Motor vehicle title fees, license plate transfer and dealers' plates, various special fees, and registrations	22,992	23,968
Hunting, fishing, and trapping licenses	23,495	25,660
Public utility assessment fees	12,271	11,970
Department of Commerce licenses & permits	6,157	7,030
Department of Agriculture licenses and permits	2,891	1,993
Auto repair facilities and mechanics licenses and fees	2,720	2,868
Other licenses and permits	14,103	16,723
TOTAL	138,479	147,878

TABLE X-7. REVENUE OF STATE OF MICHIGAN, AS DEFINED BY THE STATE OF MICHIGAN (EXCLUSIVE OF REVENUES OF STATE INSTITUTIONS OF HIGHER EDUCATION), FISCAL YEARS: 1984 AND 1985 (cont.)

(In thousands of dollars)

Source	1984	1985
Miscellaneous		
Lottery operations	586,218	894,135
Air and water surveillance fees	1,882	
Income from investments	95,729	129,542
Various fines, fees, and assessments	7,572	7,617
Court fines, fees, and assessments	17,192	13,666
Oil and gas royalties, fees, assignments, and rentals	47,815	20,461
International Bridge Authority payroll contributions	1,046	1,178
Environmental pollution settlements	n.a.	
Sale of forest products on tax reverted land	4,850	4,621
Other miscellaneous	48,695	33,636
TOTAL	811,002	1,004,859
Other financing sources:		
Proceeds from sale of bonds	107,714	32,875
Operating transfers in:		
From general and special revenue funds	1,211,863	1,715,426
From other funds	61,479	101,211
Gifts and contributions	n.a.	1,311
Heritage Trust Fund	n.a.	27,792
Homeowner construction Lien Recovery Fund	n.a.	519
Reimbursements and recoveries	n.a.	25,897
TOTAL	1,381,058	1,905,031
TOTAL REVENUE	14,142,322	15,473,643

SOURCE: Michigan Department of Management and Budget, State of Michigan Financial Report, 1984 and 1985 (Lansing: annually), pp. 158-159 (1984, and pp. 162-163.

TABLE X-9. FEDERAL, STATE, AND LOCAL GOVERNMENT DIRECT GENERAL EXPENDITURES IN MICHIGAN AND THE UNITED STATES, FISCAL YEARS: 1960-1984

Fiscal year	Federal		State		Local		Total	
	Michigan	United States	Michigan	United States	Michigan	United States	Michigan	United States
1960	n.a.	n.a.	790	17,946	1,582	33,931	n.a.	n.a.
1961	n.a.	n.a.	903	19,004	1,721	37,197	n.a.	n.a.
1962	n.a.	n.a.	955	20,375	1,823	39,831	n.a.	n.a.
1963	n.a.	n.a.	972	22,491	1,974	42,326	n.a.	n.a.
1964	n.a.	n.a.	1,018	24,274	2,113	45,027	n.a.	n.a.
1965	n.a.	n.a.	1,054	26,141	2,229	48,813	n.a.	n.a.
1966	n.a.	n.a.	1,242	29,162	2,503	53,680	n.a.	n.a.
1967	n.a.	n.a.	1,553	34,249	2,771	59,101	n.a.	n.a.
1968	n.a.	n.a.	1,742	38,446	2,960	63,966	n.a.	n.a.
1969	n.a.	n.a.	1,929	43,244	3,459	73,483	n.a.	n.a.
1970	4,053	168,152	2,146	48,749	3,864	82,582	10,063	299,483
1971	4,531	182,702	2,481	56,478	4,329	94,196	11,341	333,376
1972	4,813	195,672	2,913	62,051	4,951	106,499	12,677	364,222
1973	5,452	221,354	3,280	67,264	5,302	113,822	14,034	402,440
1974	6,249	239,636	3,630	73,950	5,746	124,668	15,625	438,254
1975	7,538	279,672	4,269	86,326	6,636	143,148	18,443	509,146
1976	7,787	303,281	4,513	95,832	7,391	159,720	19,691	558,833
1977	9,466	333,212	4,801	101,891	7,723	170,938	21,990	606,041
1978	9,745	363,269	5,291	112,515	8,400	182,995	23,436	658,779
1979	10,928	394,582	5,938	124,559	9,446	201,470	26,312	720,611
1980	12,211	445,659	6,934	143,718	10,467	223,621	29,612	812,998
1981	17,614	562,219	7,178	160,474	10,998	245,102	35,790	967,795
1982	18,016	603,576	7,682	170,747	11,390	262,783	37,088	1,037,106
1983	19,978	696,780	8,312	183,732	11,984	280,924	40,274	1,161,436
1984	20,297	724,749	9,358	201,310	12,312	301,974	41,967	1,228,033

SOURCE: Bureau of the Census, 1977 Census of Governments, Compendium of Government Finances (Washington, D.C.: 1979), vol. 4, no. 5, Table 3 and 47, and similar documents for 1962 (Table 25), 1967 (Table 23), and 1972 (Table 23); Bureau of the Census, Governmental Finances, 1980-81 (Washington, D.C.: 1982), Table 13, Governmental Finances, 1983-84 (Washington, D.C.: 1985), Table 13, and similar documents for other years between quinquennial Censuses of Governments; and Executive Office of the President, Geographic Distribution of Federal Funds in Michigan, Fiscal Year 1980 (Washington, D.C.: 1981), National and State Summaries section, p. 2, Federal Expenditures by State for Fiscal Year 1984 (Washington, D.C.: annually), Table 1, and similar documents for previous years.

n.a.: not available.

TABLE X-10. DEPARTMENT OF DEFENSE MILITARY PRIME CONTRACT AWARDS IN MICHIGAN, FISCAL YEARS: 1951-1984

Year	Amount ($000)	Percentage	Army ($000)	Navy ($000)	Air Force ($000)	Defense Logistics Agency ($000)
1951	2,470,032	8.3	1,284,119	387,769	798,144	
1952	5,253,562	13.7	2,962,445	494,408	1,796,709	
1953	1,325,201	4.9	945,775	- 55,454	434,880	
1954	- 290,738	- 2.7	- 270,078	20,420	- 41,080	
1955	35,712	0.3	211,194	48,883	- 224,365	
1956	308,292	1.9	147,112	65,750	95,430	
1957	431,234	2.4	-267,668	48,727	114,839	
1958	531,791	2.5	330,432	76,355	125,004	
1959	782,914	3.6	526,739	59.114	197,031	
1960	600,947	2.9	334,353	93,495	173,099	
1961	590,480	2.7	357,155	101,274	132,051	
1962	677,787	2.7	428,785	117,202	117,917	13,829[a]
1963	633,047	2.5	392,644	89,235	121,205	29,963[b]
1964	591,290	2.4	358,641	71,195	104,052	57,402
1965	532,897	2.3	348,357	53,483	93,185	37,872[c]
1966	918,426	2.9	637,194[d]	60,811	133,809	86,612
1967	1,033,706	2.8	673,068[e]	89,224	120,280	151,134
1968	796,296	2.1	524,901[e]	86,397	94,688	90,310
1969	683,215	1.9	461,992[e]	51,015	93,006	77,202
1970	562,786	1.9	365,147[e]	40,819	81,757	75,063
1971	448,699	1.6	304,624[e]	28,205	67,120	48,750
1972	468,330	1.5	315,934[e]	41,320	57,486	53,590
1973	493,952	1.6	344,291[e]	32,677	56,242	60,742
1974	925,012	2.8	742,850[e]	48,297	67,286	66,579
1975	766,063	2.1	576,811[e]	43,388	68,869	76,995
1976	965,160	2.5	784,636[e]	41,858	61,974	76,692
1977	1,244,458	2.7	962,836[e]	65,241	119,117	97,204
1978	1,382,180	2.6	1,052,827[e]	104,090	127,510	97,753
1979	1,493,592	2.6	1,165,361[e]	118,895	107,989	101,347
1980	1,695,844[e]	2.6	1,289,176	138,004	120,847	144,660

TABLE X-10. DEPARTMENT OF DEFENSE MILITARY PRIME CONTRACT AWARDS IN MICHIGAN, FISCAL YEARS: 1951-1984 (cont.)

Year	Amount ($000)	Percentage	Army ($000)	Navy ($000)	Air Force ($000)	Defense Logistics Agency ($000)
1981	1,736,332[e]	2.0	1,191,329	223,433[f]	181,313	140,257
1982	1,540,154[e]	1.5	944,244	242,865[f]	236,798	116,247
1983	1,782,163[e]	1.5	1,078,000	260,151[f]	236,798	207,214
1984	2,510,005[e]	2.0	1,722,637	310,413[f]	302,563	174,392

SOURCE: Department of Defense, Military Prime Contract Awards by State, (Washington, D.C.: annually); and Atlas/State Data Abstract for the United States (Washington, D.C.: annually).

a. Includes awards since January 1, 1962, for certain common supplies for which procurement responsibility was transferred from the military department.

b. Procurements by three Department of Defense agencies: the Defense Communication Agency, Office of Civil Defense, and Office of the Secretary of Defense. These agencies are included in procurement statistics for the first time in fiscal year 1963.

c. Procurements by three Department of Defense agencies: the Defense Communication Agency, Office of Civil Defense, and Office of the Secretary of Defense. The Office of Civil Defense is included in totals for the Army beginning in fiscal year 1965.

d. Beginning in fiscal year 1966, other defense agencies, previously listed separately, are shown in totals for the Army.

e. Includes totals for other defense agencies.

f. Includes totals for Marine Corps.

TABLE X-11. DISTRIBUTION OF FEDERAL FUNDS, MICHIGAN AND THE UNITED STATES: FISCAL YEARS 1981-1984

	Grants to state and local governments	Salaries and wages	Direct payments to individuals	Procurements	Other major programs	Total
	(In millions of dollars)					
1981						
Michigan	4,108	795	10,584	2,011	116	17,614
United States	94,806	74,169	259,653	128,188	5,402	562,219
1982						
Michigan	3,634	889	11,546	1,840	106	18,016
United States	88,221	78,043	286,080	145,816	5,415	603,576
1983						
Michigan	3,614	1,626	12,531	1,941	266	19,978
United States	92,712	102,601	325,882	158,929	16,656	696,780
1984						
Michigan	3,776	1,743	11,719	2,798	261	20,297
United States	97,209	108,653	325,881	176,470	16,536	724,749

SOURCE: Bureau of the Census, Federal Expenditures by State for Fiscal Year 1984 (Washington, D.C.: annually), Table 1, and similar documents for prior years.

TABLE X-4. PERCENTAGE OF GENERAL REVENUE OF STATE AND LOCAL GOVERNMENTS ORIGINATING AT FEDERAL, STATE, AND LOCAL LEVEL, MICHIGAN AND UNITED STATES: FISCAL YEARS 1964-1984

	Originating level of government						Final recipient level of government			
	Michigan			United States			Michigan		United States	
Year	Federal	State	Local	Federal	State	Local	State	Local	State	Local
1963-64	12.9	45.1	42.0	14.6	41.2	44.2	36.6	63.4	36.2	63.8
1964-65	12.6	45.9	41.5	14.8	41.2	44.0	37.2	62.8	36.1	63.9
1965-66	12.7	46.3	41.0	15.8	41.6	42.6	36.2	63.8	36.6	63.4
1966-67	14.6	45.3	40.1	16.9	41.4	41.7	35.4	64.6	36.9	63.1
1967-68	13.6	47.7	38.5	16.9	42.6	40.3	40.0	59.9	38.3	61.6
1968-69	13.1	48.8	37.9	16.7	43.2	40.0	39.9	60.0	37.9	62.0
1969-70	13.8	46.7	39.3	16.7	43.9	39.3	38.2	61.7	38.8	61.1
1970-71	15.4	45.6	38.9	18.0	42.2	39.6	37.6	62.3	37.2	62.7
1971-72	16.5	45.1	38.4	18.7	42.2	39.1	39.4	60.6	37.9	62.1
1972-73	19.7	45.8	34.5	20.6	42.3	37.1	42.5	57.5	38.5	61.5
1973-74	18.8	45.1	36.1	20.1	42.9	36.9	39.7	60.3	37.4	62.6
1974-75	20.5	41.3	38.2	20.6	42.4	37.0	37.2	62.8	36.6	63.4
1975-76	23.0	39.7	37.3	21.7	41.9	36.4	37.3	62.7	38.1	61.9
1976-77	21.5	43.7	34.7	21.9	42.4	35.7	39.4	60.6	38.3	61.7
1977-78	21.6	45.3	33.1	22.0	42.9	35.0	39.4	60.6	40.8	59.2
1978-79	21.1	45.3	33.6	21.9	44.0	34.1	41.0	59.0	39.0	61.0
1979-80	22.3	42.7	35.0	21.7	44.3	34.0	39.9	60.1	39.8	60.2
1980-81	21.7	41.9	36.4	21.3	44.3	34.4	42.1	57.9	39.9	60.1
1981-82	19.6	40.6	39.9	19.1	45.2	35.8	41.3	58.7	39.5	60.5
1982-83	19.1	42.3	38.6	18.5	44.7	36.8	44.4	55.6	39.5	60.5
1983-84	15.8	50.7	33.4	17.9	45.9	36.2	46.6	53.4	41.4	58.6

SOURCE: Bureau of the Census, U.S. Census of Governments, 1972, vol. 4, Government Finances, no. 5, Compendium of Government Finances (Washington, D.C.: 1974), Table 23, and similar census documents for 1962 (Table 25), and 1967 (Table 23); and Bureau of the Census, Governmental Finances, 1982-84 (Washington, D.C.: 1985), Series GF-84, no. 5, Table 8; and similar documents for previous years.

NOTE: Includes revenues of public institutions of higher education, exclusive of their state or local support.

TABLE X-8. REVENUE OF LOCAL GOVERNMENTS IN MICHIGAN, BY LEVEL OF GOVERNMENT: 1983-1984

(In millions of dollars)

Item	All local governments	Counties	Munici-palities	Townships	Special districts	School districts
Total revenue[a]	14,435.2	2,674.8	4,873.5	602.2	530.4	6,215.5
General revenue total[a]	13,116.6	2,543.9	3,830.8	518.0	477.8	6,215.5
Intergovernmental revenue[a]	4,349.1	1,110.7	1,399.5	176.2	126.6	2,005.6
From federal government	819.0	183.5	501.9	33.6	53.8	46.1
From state government	3,530.2	769.8	728.2	133.8	58.5	1,839.9
General revenue from own sources	8,767.5	1,433.2	2,431.4	341.8	351.2	4,209.9
Tax revenue	5,728.3	612.7	1,290.1	181.3	21.8	3,622.4
Property tax	5,285.1	594.8	888.8	173.0	21.8	3,606.7
Other taxes	443.2	17.9	401.3	8.3	--	15.7
Charges and miscellaneous revenue	3,039.2	820.5	1,141.2	160.5	329.4	587.5
Utility system and liquor store revenue	822.8	10.3	672.3	79.7	60.6	--
Employee retirement revenue	495.8	120.7	370.5	4.6	--	--

SOURCE: Bureau of the Census, Governmental Finances in 1983-84 (Washington, D.C.: 1985), GF83, No. 5, Table 23.

a. Duplicative intergovernmental transactions are excluded.

TABLE X-12. EXPENDITURES OF MICHIGAN LOCAL GOVERNMENTS AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1982, 1983 AND 1984

(In millions of dollars)

Item	1972	1977	1982	1983	1984
General expenditure	5,046.2	7,744.1	11,426.4	12,022.8	12,339.0
Intergovernmental, net	95.0	20.7	34.4	39.0	26.2
Direct expenditure	4,951.3	7,723.4	11,392.0	11,983.8	12,312.8
Education	2,396.6	3,622.6	5,166.6	5,314.8	5,799.0
Higher	100.1	238.6	376.0	477.6	428.4
Local schools	2,296.5	3,384.0	4,790.5	4,837.2	5,370.6
Highways	351.3	507.5	660.9	683.5	737.6
Capital outlay	159.8	193.8	195.4	191.7	172.9
Other	191.5	313.7	465.5	491.8	564.7
Public welfare	141.6	229.3	180.8	217.8	190.2
Health and hospitals	256.2	415.8	1,045.9	1,159.9	1,140.3
Police protection	245.0	425.6	671.3	683.3	699.1
Fire protection	107.9	184.1	288.8	307.1	308.2
Sewerage	316.8	291.5	556.0	710.5	495.0
Other sanitation	67.8	92.7	144.7	144.7	145.8
Parks and recreation	97.1	153.3	258.6	262.1	294.0
Urban renewal[b]	81.1	89.0	176.1	147.9	132.0
Airports	26.5	48.7	50.8	52.4	49.2
Correction	32.3	67.8	132.2	161.4	292.1
Libraries	28.7	41.9	65.5	65.3	74.3
Financial administration	60.2	97.6	205.9	220.5	234.8
General control	139.6	232.6	376.6	401.0	416.9
General public buildings	39.1	69.6	88.5	88.0	91.0
Interest on general debt	201.6	298.5	401.0	478.2	490.0
Other	304.3	677.7	861.5	826.5	836.8
Utility expenditure	334.1	513.0	905.3	1,027.5	1,408.4
Insurance trust expenditure, Employee retirement	97.9	153.4	270.1	289.5	308.6
TOTAL	5,478.3	8,410.5	12,600.0[c]	13,339.9[c]	14,055.4[c]

SOURCE: Bureau of the Census, *U.S. Census of Governments, 1977*, vol. 4, *Government Finances*, no. 5, *Compendium of Government Finances* (Washington, D.C.: 1972), Table 46; Bureau of the Census, *Government Finances, 1981-1982* (Washington, D.C.: 1983), Series GF-82, no. 5, Table 13; and *Government Finances, 1983-84*, (Washington, D.C.: 1985), Table 13.

a. Includes natural resources.
b. Includes housing.
c. Net of duplicative intergovernmental transactions.

TABLE X-13. EXPENDITURES OF THE STATE OF MICHIGAN AS DEFINED BY THE BUREAU OF THE CENSUS, FISCAL YEARS: 1972, 1977, 1983, AND 1984

(In millions of dollars)

Item	1972	1977	1983	1984
General Expenditure	4,532.0	7,649.3	12,149.7	13,395.8
Intergovernmental expenditure	1,619.1	2,848.3	3,837.8	4,037.7
Direct expenditure	2,912.9	4,800.9	8,311.8	9,358.1
General expenditure by function:				
Educational services:				
Education	867.4	1,296.6	1,895.8	1,978.5
Higher education	714.5	1,038.2	1,651.5	1,751.7
Libraries	n.a.	n.a.	6.3	7.3
Social Services:				
Public welfare	948.4	1,767.8	3,357.9	3,908.3
Hospitals	218.6	339.4	989.4[a]	1,074.4[a]
Health	44.0	126.1		
Emp. security admin.	55.2	99.1	158.9	153.1
Transportation:				
Highways	344.5	392.0	412.4	547.0
Airports	6.9	13.5	15.3	2.5
Water transp. & terminals	n.a.	n.a.	6.4	5.7
Public safety:				
Correction	50.7	119.2	244.2	277.2
Police protection	38.5	65.6	104.2	116.7
Environment and housing				
Natural resources	83.9	91.8	166.9	184.4
Housing & urban renewal	1.9	4.2	11.2	12.3
Governmental administration:				
Financial administr.	46.4	80.9	115.4	111.1
General control	40.1	73.5	178.6	197.2
General public buildings	n.a.	n.a.	27.7	28.0
Interest on general debt	57.0	105.1	318.9[b]	367.6
Other general exp.	109.2	226.0	217.2	297.5
Insurance trust exp.:	370.6	1,141.3	2,301.6	1,642.8
Unemployment compensation	260.0	842.1	1,688.6	622.6
Employee retirement	96.2	269.9	433.3	869.6
Workmen's compensation	14.4	29.2	179.7	150.7
Liquor stores exp.	247.7	280.2	338.1	329.9
EXPENDITURE TOTAL	5,150.3	9,070.8	14,789.4	15,368.4

SOURCE: Bureau of the Census, U.S. Census of Governments, 1977, vol. 4, Compendium of Government Finances (Washington, D.C.: 1972), Table 46; and Bureau of the Census, State Government Finances, 1982 (Washington, D.C.: 1983), Series GF-82, no. 3, Table 9; and State Government Finances in 1984 (Washington, D.C.: 1985), Table 9.

a. Includes health.

b. Includes $121,162,000 interest payments of Michigan Housing Finance Authority and $100,344,000 of Michigan Hospital Finance Authority.

TABLE X-14. GENERAL FUND EXPENDITURES BY THE STATE OF MICHIGAN AS DEFINED BY THE STATE OF MICHIGAN (INCLUDING PAYMENTS FROM THE GENERAL FUND TO INSTITUTIONS OF HIGHER EDUCATION): FISCAL YEARS 1984 AND 1985

	Expenditures ($1,000)	
Fund	1984	1985
Executive	2,636	2,879
Legislative	74,121	80,882
Judicial	91,925	102,821
Management and budget	819,150	1,245,666
Attorney general	21,748	23,993
Civil rights	9,910	10,737
Civil service	10,614	12,516
State	74,825	81,998
Treasury	152,306	168,946
Grants to colleges and universities	862,635	968,334
Other education	894,459	909,324
Public health	231,135	261,178
Mental health	714,712	827,832
Social services	4,084,035	3,902,205
Corrections	272,200	379,095
Military affairs	15,876	23,177
State police	149,465	168,687
Transportation	9,325	0
Commerce	137,626	172,819
Labor	213,051	239,405
Licensing	15,741	16,821
Natural resources	151,708	182,638
Agriculture	35,600	40,428
Expenditures not assigned	6,913	2,728
Total	9,051,729	9,825,121

SOURCE: Michigan Department of Management and Budget, State of Michigan Comprehensive Annual Financial Report, Fiscal Year Ended September 30, 1984, p. 163; and 1985, p. 8.

TABLE X-15. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984

(In thousands of dollars)

County	Real property 1982	Real property 1983	Real property 1984	Personal property 1982	Personal property 1983	Personal property 1984
Alcona	181,605	202,261	213,699	6,297	6,693	6,766
Alger	62,560	70,813	90,116	9,849	10,142	10,417
Allegan	725,297	767,488	927,180	106,217	112,411	122,992
Alpena	301,104	314,753	361,733	45,802	46,232	46,733
Antrim	304,261	322,050	351,763	12,954	14,034	14,292
Arenac	174,767	186,575	200,254	10,117	11,014	10,954
Baraga	46,773	64,122	71,286	6,566	6,592	6,758
Barry	368,272	380,335	419,935	25,623	25,944	27,581
Bay	1,265,235	1,272,388	1,391,010	106,148	105,390	109,570
Benzie	165,860	178,790	200,154	7,324	7,988	8,160
Berrien	1,645,671	1,699,905	1,988,858	228,589	226,224	223,459
Branch	358,751	367,088	396,167	30,227	28,966	30,090
Calhoun	986,500	1,028,186	1,200,712	147,640	160,046	171,577
Cass	440,268	482,704	532,262	34,204	36,112	37,697
Charlevoix	334,277	350,008	398,088	27,696	29,962	29,920
Cheboygan	255,246	271,020	305,870	20,867	21,088	22,026
Chippewa	221,451	231,780	252,092	19,836	20,550	20,491
Clare	243,415	258,416	320,487	47,392	52,813	53,000
Clinton	511,931	539,243	588,517	36,637	37,954	38,662
Crawford	141,114	144,526	168,807	12,976	13,686	15,846
Delta	261,184	283,139	345,566	58,527	60,259	57,437
Dickinson	214,678	222,822	262,858	23,862	25,075	28,841
Eaton	844,167	872,972	967,506	73,498	90,732	78,369
Emmet	328,758	365,175	422,274	33,199	33,628	34,565
Genesee	3,752,944	3,735,328	4,308,152	563,504	561,205	565,033

TABLE X-15. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984 (cont.)

(In thousands of dollars)

County	Real property			Personal property		
	1982	1983	1984	1982	1983	1984
Gladwin	162,660	176,584	219,124	17,207	15,143	15,675
Gogebic	124,777	129,031	164,025	29,489	29,832	29,731
Grand Traverse	624,224	749,261	849,987	77,299	77,856	77,106
Gratiot	375,938	395,059	446,816	36,411	37,651	40,281
Hillsdale	407,837	400,622	427,731	27,488	26,351	28,734
Houghton	200,142	202,852	234,045	28,114	27,058	26,764
Huron	634,197	676,815	749,040	33,952	36,094	40,418
Ingham	2,140,253	2,236,960	2,595,736	320,487	326,494	330,017
Ionia	374,309	380,627	421,899	30,639	33,091	34,970
Iosco	274,847	290,741	328,391	20,197	20,190	21,283
Iron	132,893	128,268	150,636	20,261	21,058	21,111
Isabella	377,273	391,758	448,594	33,991	37,605	39,428
Jackson	1,081,112	1,068,503	1,247,880	157,781	153,864	156,376
Kalamazoo	1,890,898	2,001,016	2,355,350	258,728	276,598	290,396
Kalkaska	157,693	169,447	259,544	84,822	85,012	83,670
Kent	3,907,932	4,102,978	4,835,837	517,287	550,354	579,640
Keweenaw	21,869	24,210	28,453	3,318	3,735	3,687
Lake	133,798	146,803	154,504	5,830	7,007	7,072
Lapeer	670,768	685,412	750,567	51,263	51,315	52,689
Leelanau	341,238	359,571	390,708	10,319	11,073	11,141
Lenawee	936,673	931,067	1,027,149	100,875	97,617	100,278
Livingston	1,174,512	1,178,418	1,284,767	102,474	101,266	106,052
Luce	39,019	42,710	45,951	2,070	2,294	2,204
Mackinac	137,837	155,667	195,722	32,418	33,319	33,927
Macomb	6,776,671	6,816,945	7,828,868	843,972	868,783	926,358

TABLE X-15. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984 (cont.)

(In thousands of dollars)

County	Real property			Personal property		
	1982	1983	1984	1982	1983	1984
Manistee	182,655	232,261	314,303	71,010	69,613	73,673
Marquette	591,155	576,248	647,657	57,064	57,350	56,861
Mason	497,959	514,920	569,089	42,280	43,612	43,821
Mecosta	296,772	317,708	374,019	43,134	44,472	47,461
Menominee	203,660	223,517	242,283	16,665	16,702	18,489
Midland	836,895	889,365	1,524,369	521,678	573,337	617,267
Missaukee	124,259	137,457	169,123	19,413	25,945	25,128
Monroe	1,699,750	1,804,545	2,095,436	167,581	182,100	232,555
Montcalm	388,966	410,912	498,184	54,709	59,968	64,725
Montmorency	117,641	122,563	135,259	4,800	5,157	6,599
Muskegon	1,110,316	1,134,281	1,304,320	138,012	151,982	155,402
Newaygo	314,323	347,185	402,024	30,072	34,345	35,888
Oakland	12,527,708	12,772,683	14,390,974	1,198,002	1,231,959	1,322,736
Oceana	217,282	229,211	249,638	11,917	11,388	12,055
Ogemaw	202,749	208,590	231,062	17,624	18,222	19,042
Ontonagon	90,950	89,472	102,314	11,404	11,468	11,339
Osceola	192,250	198,762	249,820	38,458	43,425	45,836
Oscoda	86,684	106,762	116,437	6,279	6,763	6,932
Otsego	210,531	255,461	339,835	50,167	70,105	72,636
Ottawa	1,768,884	1,841,695	2,061,112	157,045	163,508	168,836
Presque Isle	170,289	175,645	199,159	20,171	20,040	20,166
Roscommon	287,422	303,529	333,277	18,240	17,902	19,778
Saginaw	1,964,421	1,998,968	2,291,447	283,637	276,784	271,659
St. Clair	1,652,377	1,699,857	1,979,030	198,530	228,233	230,283
St. Joseph	519,541	533,737	620,907	58,459	59,503	63,353

TABLE X-15. ASSESSED VALUATIONS OF MICHIGAN'S COUNTIES APPROVED BY BOARD OF REVIEW, STATE TAX COMMISSION: 1982, 1983 AND 1984 (cont.)

(In thousands of dollars)

County	Real property 1982	Real property 1983	Real property 1984	Personal property 1982	Personal property 1983	Personal property 1984
Sanilac	496,010	498,341	527,438	26,224	26,495	27,421
Schoolcraft	69,613	73,727	89,191	13,446	13,715	14,055
Shiawassee	565,395	567,788	615,298	41,439	41,019	43,297
Tuscola	566,204	602,913	664,126	36,489	37,348	38,813
Van Buren	541,857	569,952	651,996	60,914	67,317	58,731
Washtenaw	2,840,494	2,867,103	3,371,562	370,033	395,279	416,673
Wayne	15,829,168	15,675,162	18,244,113	2,654,110	2,259,876	2,630,318
Wexford	205,707	226,912	256,918	23,396	22,604	23,397
TOTAL	84,605,350	86,665,444	99,988,390	11,018,264	11,302,045	11,725,469

SOURCE: Michigan State Tax Commission, special release.

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Adrian	169,228,100	973,062	2,536,500	7,006,636	62.14	10,516,198
Albion	56,623,687	340,875	643,755	2,184,542	55.97	3,169,171
Algonac	36,251,936	223,674	542,362	1,199,939	54.23	1,965,975
Allegan	43,812,227	282,427	510,421	1,185,287	45.15	1,978,135
Allen Park	378,376,460	2,769,716	6,928,073	15,574,765	66.79	25,272,553
Alma	71,099,700	405,268	1,091,388	2,826,923	60.81	4,323,581
Alpena	144,111,400	1,147,127	2,857,764	4,641,828	60.00	8,646,719
Ann Arbor	1,319,090,310	8,300,163	21,519,022	53,357,203	63.06	83,176,388
Auburn	17,963,300	150,224	162,433	675,122	54.99	987,779
Au Gres	10,771,000	65,703	160,294	285,941	47.53	511,939
Bad Axe	33,377,178	134,163	440,579	848,782	42.65	1,423,523
Bangor	11,528,338	73,201	177,502	397,728	56.25	648,431
Battle Creek	493,010,960	2,967,926	5,176,615	20,802,538	58.71	28,947,079
Bay City	292,591,400	2,446,874	6,878,199	10,879,525	69.05	20,204,518
Beaverton	7,385,755	58,929	127,347	221,462	55.21	407,738
Belding	37,828,400	195,573	546,323	1,241,759	52.41	1,983,655
Belleville	25,223,032	184,633	358,167	976,636	60.24	1,519,435
Benton Harbor	49,037,770	268,040	1,554,501	1,771,014	73.23	3,593,555
Berkley	151,969,450	780,986	2,909,915	6,935,686	69.93	10,626,587
Bessemer City	12,398,783	80,592	198,257	441,645	58.11	720,493
Big Rapids	63,030,600	406,961	536,176	2,018,870	46.99	2,962,007
Birmingham	432,065,650	2,220,429	6,831,349	13,890,911	53.10	22,942,688
Bloomfield Hills	201,431,750	1,035,178	1,949,442	6,093,675	45.07	9,078,295
Boyne City	32,679,450	158,603	585,943	1,132,016	57.42	1,876,562
Bridgman	23,955,500	130,941	449,168	291,943	36.40	872,052

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Brighton	68,173,650	400,520	1,175,995	2,767,850	63.73	4,344,366
Bronson	15,499,237	103,876	242,495	542,783	57.37	889,154
Brown City	8,278,217	41,388	137,005	246,939	51.38	425,332
Buchanan	44,045,400	240,752	616,636	1,531,679	54.24	2,389,067
Burton	273,275,490	1,831,410	2,203,942	10,758,078	54.13	14,793,430
Cadillac	82,025,550	604,430	1,390,333	3,005,416	60.96	5,000,179
Carson City	8,591,400	48,541	171,830	306,969	61.38	527,340
Caspian	5,485,189	53,206	109,704	177,281	62.02	340,191
Cedar Springs	15,002,400	69,391	180,029	464,032	47.56	713,452
Center Line	103,764,239	464,864	1,995,386	4,228,871	64.46	6,689,121
Charlevoix	54,731,800	265,630	738,879	1,572,992	47.09	2,577,501
Charlotte	67,206,300	355,246	1,026,361	2,298,455	54.76	3,680,062
Cheboygan	41,563,554	234,003	706,580	1,226,125	52.13	2,166,708
Clare	28,332,497	155,829	435,623	1,009,487	56.51	1,600,939
Clawson	145,992,572	750,270	1,969,583	6,329,653	61.99	9,049,507
Clio	17,983,350	120,519	266,479	590,573	54.36	977,571
Coldwater	74,049,600	496,280	1,062,612	2,899,042	60.20	4,457,934
Coleman	7,502,087	40,138	142,540	272,326	60.65	455,003
Coloma	14,437,400	78,915	217,020	485,977	54.16	781,912
Coopersville	29,039,193	128,931	423,487	991,950	53.18	1,544,368
Corunna	22,258,658	151,470	343,934	762,982	56.53	1,258,386
Croswell	13,707,800	68,534	259,914	432,138	55.49	760,586
Crystal Falls	11,031,050	107,001	154,611	325,968	53.27	587,580
Davison	45,986,850	308,190	539,223	1,713,360	55.68	2,560,773
De Witt	30,001,811	168,010	390,024	1,313,779	62.39	1,871,813

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Dearborn	1,838,353,019	13,456,744	28,402,609	49,571,123	49.73	91,430,477
Dearborn Heights	608,661,283	4,455,401	9,732,496	21,920,860	59.32	36,108,757
Detroit	5,225,825,965	38,253,046	170,879,476	201,037,525	78.49	410,170,047
Dowagiac	43,242,306	237,833	778,362	1,251,865	52.45	2,268,059
Durand	26,031,160	177,142	375,944	887,683	55.35	1,440,770
East Detroit	326,124,965	1,461,040	5,348,449	13,786,668	63.15	20,596,157
East Grand Rapids	153,740,750	711,097	2,272,722	6,432,390	61.25	9,416,209
East Jordan	19,324,300	93,787	309,189	682,302	56.16	1,085,278
East Lansing	279,818,997	2,129,423	4,910,823	13,839,090	74.62	20,879,336
East Tawas	24,900,693	126,994	338,650	625,008	43.80	1,090,652
Eaton Rapids	34,935,000	184,663	478,505	1,173,816	52.58	1,836,984
Ecorse	205,769,884	1,506,236	4,732,687	6,333,101	61.10	12,572,024
Escanaba	106,784,950	542,937	1,655,182	4,086,660	58.85	6,284,779
Essexville	40,702,275	340,386	567,040	757,005	40.89	1,664,431
Evart	17,993,900	98,966	243,098	524,522	48.15	866,586
Farmington	150,990,910	775,957	1,772,633	5,579,114	53.83	8,127,705
Farmington Hills	942,688,656	4,844,571	7,377,148	35,073,478	50.17	47,295,198
Fennville	8,495,340	54,764	127,430	293,771	56.03	475,964
Fenton	87,158,005	584,107	1,302,890	3,425,878	60.96	5,312,874
Ferndale	203,607,550	1,046,360	5,240,858	9,178,052	75.96	15,465,270
Ferrysburg	31,661,030	140,575	251,139	985,070	43.42	1,376,784
Flat Rock	99,708,318	729,865	1,595,333	3,838,487	61.82	6,163,685
Flint	1,504,370,293	10,095,083	15,976,868	65,771,729	61.05	91,843,680
Flushing	86,542,403	579,981	865,424	3,142,379	53.01	4,587,785
Frankenmuth	65,843,950	433,253	586,011	1,876,776	43.98	2,896,041

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Frankfort	16,484,700	95,446	273,976	389,863	46.06	759,285
Fraser	165,976,239	743,574	2,540,100	7,346,108	64.04	10,629,782
Fremont	49,921,775	292,042	574,100	1,746,210	52.53	2,612,353
Gaastra	1,440,676	13,975	33,136	46,563	65.02	93,673
Galesburg	10,803,005	64,818	108,030	441,087	56.83	613,935
Garden City	262,168,533	1,919,074	4,456,944	11,781,911	69.26	18,157,928
Gaylord	42,916,000	195,268	457,055	1,090,495	40.61	1,742,818
Gilbraltar	47,654,026	348,827	929,254	2,108,691	71.07	3,386,772
Gladstone	27,697,500	140,825	469,115	1,009,086	58.45	1,619,027
Gladwin	20,761,592	165,653	380,940	634,163	56.87	1,180,755
Gobles	4,654,400	29,553	80,763	137,212	53.18	247,528
Grand Blanc	83,993,797	562,901	789,542	3,150,607	53.61	4,503,050
Grand Haven	130,954,420	581,438	1,817,674	4,074,385	49.43	6,473,496
Grand Ledge	48,988,033	258,946	774,011	2,090,319	63.76	3,123,276
Grand Rapids	1,563,762,350	7,232,870	14,704,683	53,474,859	48.22	75,412,412
Grandville	145,318,100	672,140	1,293,331	5,004,926	47.97	6,970,397
Grant	5,126,700	29,992	60,381	175,966	51.95	266,339
Grayling	21,451,700	173,973	278,604	617,165	49.87	1,069,743
Greenville	77,355,800	437,060	1,179,683	2,388,337	51.77	4,005,081
Grosse Pointe	124,284,346	909,761	2,078,954	4,202,377	57.86	7,191,092
Grosse Pte. Farms	249,894,837	1,829,231	3,352,940	8,449,596	54.55	13,631,766
Grosse Pte. Park	194,480,887	1,423,600	3,258,994	6,575,904	57.89	11,258,499
Grosse Pte. Woods	312,173,891	2,285,113	4,219,779	10,555,411	54.65	17,060,303
Hamtramck	104,217,500	762,872	2,449,113	3,722,649	66.54	5,934,635
Hancock	31,614,039	246,590	535,248	964,228	55.23	1,746,066

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Harbor Beach	28,501,150	114,563	494,481	714,541	46.44	1,323,585
Harbor Springs	35,359,793	173,206	289,458	754,472	37.61	1,217,136
Harper Woods	194,504,388	1,423,772	4,250,413	5,649,411	58.22	11,323,596
Harrison	16,782,640	92,305	240,495	554,582	52.88	887,382
Harrisville	5,708,250	29,968	43,782	126,723	35.12	200,474
Hart	14,779,435	79,120	203,956	429,963	48.25	713,040
Hartford	11,597,202	73,639	239,656	462,728	66.91	776,023
Hastings	57,032,500	332,807	923,928	1,891,540	55.20	3,148,276
Hazel Park	136,660,805	702,314	3,389,188	5,779,385	72.23	9,870,887
Highland Park	143,945,390	1,053,680	4,544,361	6,517,847	84.17	12,115,889
Hillsdale	56,463,056	310,547	903,409	1,823,757	53.80	3,037,712
Holland	303,847,195	1,509,313	3,863,801	11,088,179	54.18	16,461,292
Houghton	31,117,130	242,713	466,756	986,412	54.50	1,695,881
Howell	71,084,638	417,622	1,124,687	2,876,795	62.17	4,419,104
Hudson	17,715,708	101,865	201,079	684,003	55.71	986,947
Hudsonville	44,732,350	198,612	268,394	1,511,323	44.23	1,978,328
Huntington Woods	89,473,100	459,811	2,110,971	4,064,150	74.16	6,634,933
Imlay City	23,044,605	116,382	302,012	773,495	51.72	1,191,889
Inkster	174,358,511	1,276,304	4,114,861	7,514,396	74.02	12,905,561
Ionia	38,618,300	199,657	624,297	1,057,605	48.72	1,881,558
Iron Mountain	74,352,300	539,582	1,394,106	2,622,421	61.28	4,556,109
Iron River	16,763,380	162,605	352,031	541,792	63.02	1,056,428
Ironwood	39,379,200	255,965	934,756	1,442,066	66.86	2,632,787
Ishpeming	49,804,250	298,825	1,120,596	1,514,049	58.90	2,933,471
Ithaca	19,735,270	112,491	303,923	635,136	53.28	1,051,551

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Jackson	270,459,648	1,879,695	3,880,217	12,171,292	66.30	171,931,203
Kalamazoo	664,632,200	3,987,793	12,554,902	28,983,523	68.50	45,526,218
Keego Harbor	23,568,400	121,120	446,506	923,410	63.26	1,491,036
Kentwood	382,201,521	1,767,797	1,928,207	13,886,954	46.00	17,582,957
Kingsford	54,787,900	397,601	931,394	1,722,532	55.70	3,051,527
Laingsburg	5,728,545	38,983	115,546	198,139	61.56	352,668
Lake City	9,188,600	45,943	118,545	239,639	43.98	404,127
Lansing	1,167,997,788	8,832,128	13,945,781	50,915,193	63.09	73,693,102
Lapeer	59,501,650	300,501	553,372	2,011,156	48.15	2,865,029
Lathrup Village	71,611,525	368,019	1,016,177	2,671,110	56.63	4,055,306
Leslie	14,146,441	107,654	203,001	585,946	63.38	896,601
Lincoln Park	322,434,593	2,360,221	6,390,654	10,759,642	60.51	19,510,517
Litchfield	12,768,013	70,224	120,659	453,903	50.50	644,786
Livonia	1,538,824,730	11,264,197	18,042,507	64,130,548	60.72	93,437,252
Lowell	32,676,600	151,139	388,198	1,215,824	53.71	1,755,161
Ludington	84,065,200	437,139	1,474,521	1,926,775	45.66	3,838,436
Luna Pier	46,807,025	283,885	842,040	1,530,044	56.74	2,655,968
Mackinac Island	21,702,041	93,623	249,365	463,337	37.15	806,325
Madison Heights	405,068,200	2,081,686	5,410,636	15,895,612	57.74	23,387,934
Manistee	58,816,233	348,369	1,293,957	1,733,314	57.39	3,375,640
Manistique	24,575,450	175,222	491,509	845,887	61.55	1,512,618
Manton	7,692,787	56,687	100,007	228,707	50.10	385,400
Marine City	41,134,200	253,798	855,591	1,142,297	54.74	2,251,686
Marquette	248,278,795	1,489,673	2,685,625	7,771,126	48.12	11,946,424
Marshall	67,273,970	404,989	1,284,349	2,791,466	66.61	4,480,805

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Marysville	150,646,800	929,491	1,883,085	5,099,394	52.52	7,911,970
Mason	53,464,900	406,868	670,450	2,219,863	61.67	3,297,180
McBain	4,360,900	21,804	50,150	150,800	51.08	222,755
Melvindale	107,960,090	790,268	2,521,948	4,023,673	67.95	7,335,888
Memphis	8,092,044	40,530	148,378	297,172	60.07	486,080
Menominee	75,879,025	592,615	1,254,303	2,561,630	58.10	4,408,549
Midland	1,106,915,850	5,933,058	9,076,710	27,633,812	38.52	42,643,580
Milan	48,292,400	299,995	575,885	1,812,611	55.67	2,688,491
Monroe	530,996,242	3,220,492	6,408,383	16,940,889	50.04	26,569,764
Montague	18,192,219	116,430	300,141	702,835	61.53	1,119,406
Montrose	12,090,529	81,027	139,041	412,650	52.33	632,718
Morenci	14,760,900	84,875	189,914	497,295	52.31	772,084
Mt. Clemens	171,054,146	766,323	3,612,664	8,617,290	75.98	12,996,276
Mt. Morris	20,826,877	139,575	360,621	782,258	61.58	1,282,454
Mt. Pleasant	124,619,075	896,933	1,807,350	4,757,956	59.88	7,462,240
Munising	23,251,852	166,251	495,497	780,100	62.01	1,441,847
Muskegon	331,219,000	2,119,802	5,150,787	14,031,985	64.32	21,302,574
Muskegon Heights	66,645,150	426,529	1,111,308	2,948,849	67.32	4,486,686
Negaunee	30,219,800	181,319	667,190	636,072	49.13	1,484,581
New Baltimore	51,428,730	230,401	1,002,860	2,031,949	63.49	3,265,210
New Buffalo	21,424,743	117,108	393,144	647,477	54.04	1,157,729
Newaygo	9,877,411	57,783	138,291	334,844	53.75	530,918
Niles	101,608,700	555,393	1,778,355	3,883,993	61.19	6,217,741
North Muskegon	53,393,263	341,717	584,656	2,327,946	60.95	3,254,319
Northville	83,234,419	531,224	1,446,614	3,573,254	66.69	5,551,092

TABLE X-17. GOVERNMENT EMPLOYMENT AND PAYROLLS IN MICHIGAN, BY TYPE OF GOVERNMENT, FOR COUNTIES HAVING 100,000 POPULATION OR MORE AND FOR CITIES HAVING 50,000 POPULATION OR MORE: OCTOBER 1984

Type of government	Number of employees			October payroll ($000)	Average earnings[a]
	Full-time only	Full-time equivalent	Total		
State	97,931	113,426	149,066	237,428	2,104
Local	269,132	291,494	379,551	597,894	2,063
Counties	40,449	43,135	48,623	73,447	1,715
Municipalities	57,738	60,274	73,826	121,306	2,022
Townships	6,676	7,552	21,411	14,245	1,794
School dist	157,806	173,074	226,316	375,142	2,188
Special dist	6,463	7,459	9,375	13,753	1,855
TOTAL STATE AND LOCAL	367,063	404,920	528,617	835,321	2,074
Counties					
Bay	702	764	907	1,228	1,628
Berrien[b]	1,159	1,214	1,319	1,715	1,419
Calhoun[c]	569	584	615	915	1,568
Genesee	1,504	1,531	1,600	3,229	2,111
Ingham[b]	2,440	2,736	3,122	4,186	1,536
Jackson	720	756	833	1,117	1,481
Kalamazoo	788	814	878	1,527	1,876
Kent	1,880	2,054	2,326	3,642	1,786
Livingston[d]	382	389	403	556	1,428
Macomb	2,025	2,275	2,947	4,007	1,793
Monroe	732	758	813	1,273	1,685
Muskegon	958	995	1,154	1,639	1,651
Oakland	3,311	3,429	3,758	6,952	2,031
Ottawa[b]	502	523	581	891	1,710
Saginaw	1,356	1,456	1,635	2,431	1,677
St. Clair	695	751	868	1,329	1,781
Washtenaw	1,170	1,201	1,499	2,259	1,884
Wayne	5,172	5,251	5,446	11,762	2,240
Cities					
Ann Arbor[b]	970	1,019	1,234	2,393	2,355
Battle Creek	615	627	668	1,288	2,059
Dearborn	900	995	1,252	2,009	2,060
Dearborn Heights	305	321	377	681	2,153
Detroit	17,628	17,766	18,306	39,182	2,207
Farmington Hills	235	258	382	542	2,113
Flint	3,678	3,920	4,261	8,191	2,102

TABLE X-17. GOVERNMENT EMPLOYMENT AND PAYROLLS IN MICHIGAN, BY TYPE OF GOVERNMENT, FOR COUNTIES HAVING 100,000 POPULATION OR MORE AND FOR CITIES HAVING 50,000 POPULATION OR MORE: OCTOBER 1984 (cont.)

Type of government	Number of employees			October payroll ($000)	Average earnings[a]
	Full-time only	Full-time equivalent	Total		
Cities (cont.)					
Grand Rapids	1,730	1,767	2,278	3,400	1,929
Kalamazoo	891	914	963	1,779	1,952
Lansing	2,251	2,291	2,459	5,138	2,252
Livonia	603	635	781	1,344	2,128
Pontiac	2,239	2,320	2,892	4,457	1,917
Roseville	259	268	301	652	2,445
Royal Oak	364	392	524	867	2,244
Saginaw	692	721	856	1,526	2,128
St. Clair Shores	350	374	482	859	2,322
Southfield	573	611	750	1,476	2,431
Sterling Heights	570	593	700	1,338	2,277
Taylor[e]	392	398	429	578	1,453
Troy	489	336	362	869	2,421
Warren	913	933	1,053	2,231	2,394
Westland[d]	400	403	414	698	1,728
Wyoming	349	365	500	719	1,973

SOURCE: Bureau of the Census, *Public Employment in 1983*, Series GE 82, no. 1 (Washington, D.C.: 1984), Table 9; and Bureau of the Census, *County Government Employment in 1983*, Series GE 82, no. 4 (Washington, D.C.: 1984), Table 4; and Bureau of the Census, *City Employment in 1983*, Series GE 82, no. 2 (Washington, D.C.: 1984), Table 4.

NOTE: Figures include faculty and staff of state and local institutions of higher education. Average earnings by counties and cities are for employees other than teachers.

a. Full-time employees only.
b. Data are for October 1983.
c. Data are for October 1981.
d. Data are for October 1982.
e. Data are for October 1980.

TABLE X-18. FULL-TIME EQUIVALENT EMPLOYMENT OF STATE AND LOCAL GOVERNMENTS PER 10,000 POPULATION IN MICHIGAN AND THE UNITED STATES, BY FUNCTION: OCTOBER 1976, 1982, AND 1984

	Michigan			United States		
	1976	1982	1984	1976	1982	1984
Local schools						
Instructional staff	127.1	110.4	120.3	126.9	118.8	120.8
Other	72.5	55.7	60.5	53.0	52.6	53.9
TOTAL	199.6	166.1	180.7	179.9	171.4	174.7
Higher education						
Instructional staff	19.8	19.3	19.9	19.0	18.4	18.4
Other	36.9	40.5	41.3	30.2	31.5	31.5
TOTAL	56.7	59.8	61.2	49.2	49.9	49.9
Other education	2.7	2.4	2.3	4.0	3.9	3.8
TOTAL EDUCATION	258.9	228.3	244.3	233.1	225.2	228.4
Welfare	16.4	17.1	17.8	15.9	16.1	16.2
Hospitals	40.6	39.0	39.1	44.7	46.1	44.2
Health	7.1	8.3	8.8	8.8	9.9	10.3
Highways	19.0	15.0	14.7	25.7	21.9	22.0
Police	23.3	23.1	23.3	25.4	25.9	26.2
Fire protection	8.3	7.7	7.3	10.0	9.9	10.0
Sewerage	3.1	4.3	4.3	3.8	4.3	4.4
Other sanitation	3.3	2.8	2.1	5.7	4.7	4.5
Parks and recreation	5.1	5.1	5.2	6.9	7.3	7.3
Natural resources	5.6	5.2	5.4	8.2	7.2	7.0
Correction	7.8	10.1	11.1	9.6	12.0	13.7
Local libraries	2.2	1.9	2.2	3.0	2.8	3.1
Social insurance administration	5.4	4.5	3.3	4.8	4.1	4.2
Financial administration	10.2	9.3	8.8	12.1	12.1	12.0
General control	17.0	18.9	19.1	15.9	17.9	18.3
Water supply	4.7	4.8	5.6	5.5	5.4	5.3
Other local utilities	5.2	2.1	2.1	8.8	3.5	3.6
State liquor stores	.6	.7	.6	.7	.6	.5
Other	17.5	22.4	21.1	26.8	30.9	30.7
GRAND TOTAL INCLUDING EDUCATION	461.4	430.9	446.2	475.5	467.7	471.8

SOURCE: Bureau of the Census, Public Employment in 1984 (Washington, D.C.: 1985), GE-84, no. 1, Table 12; and similar documents for 1976 and 1982.

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Norton Shores	205,984,489	1,318,301	1,707,249	8,454,520	55.73	11,480,070
Norway	23,217,800	168,494	323,656	686,550	50.77	1,178,700
Novi	420,388,189	2,160,417	4,591,059	17,139,368	56.83	23,890,844
Oak Park	277,509,420	1,426,149	6,900,985	12,763,311	76.00	21,090,444
Olivet	6,526,800	34,500	72,816	229,156	51.55	336,472
Omer	2,100,197	12,811	29,428	66,888	51.96	109,127
Onaway	6,056,645	31,555	121,133	146,934	49.47	299,622
Orchard Lk. Vill.	58,815,880	302,261	615,214	2,309,314	54.86	3,226,789
Otesgo	42,535,400	274,196	467,889	1,266,845	47.23	2,008,930
Owosso	106,304,740	723,404	1,692,371	3,271,847	53.50	5,687,622
Parchment	37,432,900	224,597	374,330	1,680,363	60.89	2,279,290
Perry	13,056,566	88,850	190,430	420,135	53.57	699,415
Petersburg	6,749,200	40,934	161,981	241,351	65.83	444,266
Petoskey	70,618,250	377,984	808,228	2,335,346	49.87	3,521,557
Pinconning	11,649,900	97,426	213,384	394,213	60.52	705,023
Plainwell	33,068,650	213,170	459,654	1,227,121	57.45	1,899,946
Pleasant Ridge	38,253,455	196,588	813,652	1,761,189	72.45	2,771,430
Plymouth	143,492,060	1,050,362	2,475,238	5,743,987	64.60	9,269,587
Pontiac	709,509,700	3,646,241	19,819,586	28,981,343	73.92	52,447,170
Port Huron	287,944,050	1,776,630	4,716,540	10,944,816	60.56	17,437,986
Portage	523,133,200	3,138,799	5,126,705	20,850,153	55.66	29,115,657
Portland	26,394,300	136,459	395,915	903,902	54.42	1,436,275
Potterville	7,983,401	42,199	119,751	326,630	61.20	488,580
Reading	5,802,441	31,913	87,037	187,593	52.83	306,543
Reed City	16,581,800	91,200	281,898	480,872	51.50	853,970

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
Richmond	28,502,897	127,693	445,215	1,002,732	55.28	1,575,640
River Rouge	244,463,493	1,789,473	5,639,773	9,042,705	67.38	16,471,950
Riverview	152,613,581	1,117,131	2,734,387	6,105,001	65.24	9,956,519
Rochester	109,710,550	563,813	1,712,516	4,369,771	60.58	6,646,101
Rockford	34,194,900	158,162	416,391	1,193,743	51.71	1,768,296
Rockwood	28,505,044	208,657	570,101	1,261,349	71.57	2,040,106
Rogers City	35,257,904	183,694	631,116	954,079	50.17	1,768,889
Romulus	306,925,080	2,246,692	3,099,943	13,548,933	61.56	18,895,568
Roosevelt Park	48,874,340	312,796	464,306	2,018,510	57.20	2,795,612
Rose City	5,931,900	37,344	94,524	180,472	52.65	312,340
Roseville	474,355,513	2,125,113	7,096,358	19,349,215	60.23	28,570,687
Royal Oak	697,038,300	3,582,150	9,908,686	30,825,073	63.58	44,315,909
Saginaw	600,265,960	3,949,750	6,548,909	26,141,583	61.04	36,640,242
Saline	101,502,900	638,691	872,925	3,925,117	53.56	5,436,733
Sandusky	23,814,820	119,065	416,759	604,896	47.90	1,140,720
Sault Ste Marie	85,703,425	569,928	2,040,599	3,188,167	67.66	5,798,694
Scottville	10,219,515	53,141	197,595	362,507	60.01	613,244
South Haven	53,878,950	342,115	860,253	1,724,665	54.33	2,927,033
South Lyon	47,200,390	242,568	835,491	1,755,382	60.03	2,833,441
Southfield	1,359,460,398	6,986,403	22,988,477	51,522,139	59.95	81,497,019
Southgate	268,790,736	1,967,548	5,752,122	10,695,756	68.51	18,415,426
Springfield	54,300,052	326,886	976,098	2,342,256	67.13	3,645,240
St. Clair	58,414,500	360,417	1,086,708	1,622,170	52.54	3,069,296
St. Clair Shores	721,188,627	3,230,925	12,476,563	28,091,366	60.73	43,798,855
St. Ignace	22,830,269	98,489	347,477	673,497	49.03	1,119,464

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total	
					Rate	Taxes
St. Johns	69,990,800	391,948	932,277	2,309,696	51.92	3,633,922
St. Joseph	123,157,100	673,177	2,295,884	4,940,007	64.22	7,909,068
St. Louis	18,223,690	103,875	258,776	655,439	55.87	1,018,090
Stambaugh	7,995,116	77,553	127,922	258,402	58.02	463,877
Standish	14,358,240	87,585	272,802	418,518	54.25	778,906
Stanton	7,307,400	41,287	87,689	277,919	55.68	406,894
Stephenson	6,672,285	52,111	16,549	175,844	36.64	244,503
Sterling Hts	1,316,946,039	5,899,918	15,553,133	54,618,470	57.76	76,071,521
Sturgis	89,982,300	428,315	1,007,802	3,026,206	49.59	4,462,323
Swartz Creek	65,743,575	440,594	696,882	2,560,712	56.25	3,698,188
Sylvan Lake	27,156,350	139,559	336,742	1,101,866	58.11	1,578,168
Tawas City	18,563,300	94,673	275,668	465,939	45.05	836,280
Taylor	578,364,357	4,233,627	12,569,535	23,793,910	70.19	40,597,071
Tecumseh	69,606,400	400,237	835,277	2,578,221	54.79	3,813,735
Three Rivers	67,407,000	320,857	1,180,499	2,196,187	54.85	3,697,544
Traverse City	217,009,332	1,366,052	2,689,659	6,803,108	50.04	10,858,819
Trenton	377,103,230	2,760,396	5,656,951	14,882,922	61.79	23,300,268
Troy	1,345,227,920	6,913,261	13,734,777	51,641,285	53.74	72,289,322
Utica	44,446,846	199,122	800,043	1,907,903	65.41	2,907,068
Vassar	22,565,400	110,570	392,094	617,164	49.63	1,119,828
Wakefield	9,923,725	64,505	203,288	346,042	61.86	613,835
Walker	199,833,714	924,291	999,169	6,527,938	42.29	8,451,398
Walled Lake	52,021,300	267,343	913,286	2,230,725	65.58	3,411,354
Warren	2,085,765,993	9,344,232	26,741,397	87,799,180	59.40	123,884,809
Watervliet	12,465,432	68,136	199,447	406,273	54.06	673,856

TABLE X-16. STATE EQUALIZED VALUATIONS AND PROPERTY TAX LEVIES IN MICHIGAN CITIES: 1983 (cont.)

City	State equalized valuation	County taxes	City taxes	School taxes	Total Rate	Total Taxes
Wayland	18,138,332	116,925	234,783	597,864	52.35	949,573
Wayne	227,282,903	1,663,711	4,031,999	11,267,908	74.64	16,963,618
West Branch	18,928,229	119,161	317,207	575,872	53.48	1,012,240
Westland	612,245,803	4,481,639	10,744,915	29,044,686	72.31	44,271,240
White Cloud	8,082,986	47,285	125,300	286,542	56.80	459,128
Whitehall	38,405,820	245,797	499,276	1,603,443	61.15	2,348,516
Whittemore	2,881,022	14,693	20,468	78,162	39.33	113,323
Williamston	23,445,137	178,418	398,567	410,806	42.13	987,791
Wixom	137,921,190	708,791	1,170,675	5,894,403	56.36	7,773,869
Woodhaven	173,106,481	1,267,139	2,655,453	7,373,024	65.25	11,295,617
Wyandotte	279,933,785	2,049,115	5,206,768	11,936,377	68.56	19,192,260
Wyoming	675,663,487	3,125,146	5,459,361	23,377,949	47.31	31,962,456
Yale	13,408,017	82,727	174,304	409,615	49.72	666,547
Ypsilanti	178,542,150	1,123,448	4,396,708	7,895,134	75.13	13,414,289
Zeeland	73,906,451	328,145	724,287	2,445,860	47.33	3,498,292
Zilwaukee	18,460,025	121,467	293,514	803,934	66.03	1,218,915
STATE TOTAL	49,772,178,036	304,228,842	811,594,903	1,904,166,587	60.68	3,019,990,332

SOURCE: Michigan Department of Treasury, State Tax Commission, special release.

TABLE X-19. PERSONNEL AND EXPENDITURES, MILITARY AND CIVILIAN, OF THE DEPARTMENT OF DEFENSE BY DEFENSE DIVISION AND CATEGORY IN MICHIGAN, FISCAL YEAR 1984

(Dollars in thousands)

	Total	Army	Navy and Marine Corps	Air Force	Other defense activities
Personnel - total	21,343	8,526	729	10,025	2,063
Active duty military	9,267	883	635	7,749	0
Civilian	12,076	7,643	94	2,276	2,063
Expenditures - total	$3,259,959	$2,066,991	$380,331	$575,008	$237,629
Payroll outlays - total	749,954	344,354	69,918	272,445	63,237
Active duty military pay	174,912	31,761	11,254	131,897	0
Civilian pay	324,977	206,322	2,141	53,277	63,237
Reserve and national guard pay	73,712	42,745	15,449	15,518	0
Retired military pay	176,353	63,526	41,074	71,753	0
Prime contracts over $25,000 - total	2,510,005	1,722,637	310,413	302,563	174,392
Supply contracts	1,984,813	1,503,786	96,456	221,287	163,284
R&D contracts	295,023	80,890	198,007	14,286	1,840
Service contracts	196,328	111,336	8,851	66,873	9,268
Construction contracts	20,076	12,860	7,099	117	0
Civil function contracts	13,765	13,765	0	0	0

SOURCE: U.S. Department of Defense, *Atlas/State Data Abstract for the United States, Fiscal Year 1984* (Washington, D.C.: 1985).

TABLE X-22. RANKING OF MICHIGAN COUNTIES ACCORDING TO LABOR AND PROPRIETORS' EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS FEDERAL GOVERNMENT AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percentage	
County	1974	1984	County	1974	1984
Iosco	46.91	46.55	Schoolcraft	2.12	1.55
Marquette	21.17	19.22	Mecosta	1.53	1.53
Chippewa	41.36	9.69	St. Clair	1.60	1.52
Calhoun	6.49	9.69	Eaton	1.70	1.51
Dickinson	8.20	8.48	Van Buren	1.40	1.49
Houghton	5.10	5.17	Shiawassee	1.42	1.47
Leelanau	4.89	5.08	Mason	1.30	1.45
Macomb	5.02	5.02	Manistee	2.07	1.43
Cheboygan	2.88	4.65	Newaygo	1.41	1.43
Gogebic	3.31	4.55	Osceola	1.39	1.43
Alcona	5.25	3.64	Kalamazoo	1.55	1.38
Mackinac	2.77	3.63	Isabella	1.47	1.38
Lake	2.81	3.43	Tuscola	1.12	1.37
Charlevoix	2.90	3.36	Barry	1.37	1.35
Oscoda	(D)	2.75	Jackson	1.20	1.28
Delta	2.12	2.70	Bay	1.10	1.26
Missaukee	1.79	2.68	Allegan	1.43	1.25
Clinton	1.90	2.59	Lapeer	1.33	1.24
Alger	2.29	2.43	Ionia	1.19	1.23
Arenac	1.92	2.30	Monroe	1.24	1.23
Oceana	2.31	2.30	Livingston	1.51	1.21
Benzie	1.92	2.30	Menominee	1.49	1.21
Otsego	3.47	2.30	Alpena	2.22	1.18
Ingham	2.34	2.27	Kent	1.35	1.15
Wexford	2.39	2.25	Gratiot	1.04	1.14
Wayne	1.98	2.24	Muskegon	1.08	1.14
Montmorency	(D)	2.20	Hillsdale	1.35	1.11
Grand Traverse	2.30	2.17	Montcalm	1.13	1.10
Gladwin	1.86	2.12	Cass	1.34	1.10
Huron	1.67	1.98	Berrien	0.93	1.10
Washtenaw	2.02	1.90	Kalkaska	(D)	1.04
Clare	2.05	1.85	Lenawee	0.93	1.03
Saginaw	1.64	1.85	Branch	0.96	0.96
Antrim	1.91	1.78	Genesee	1.01	0.90
Iron	3.24	1.76	Ottawa	1.00	0.87
Crawford	7.71	1.76	Luce	(D)	0.86
Baraga	(D)	1.75	St. Joseph	0.94	0.83
Emmet	2.18	1.72	Oakland	1.06	0.76
Ontonagon	0.99	1.72	Midland	0.54	0.60
Sanilac	1.35	1.60	Keweenaw	(D)	(D)
Presque Isle	3.89	1.59			
Roscommon	1.57	1.57	Michigan	2.28	2.19
Ogemaw	1.76	1.56	United States	6.21	5.40

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

NOTE: Earnings of federal employees include earnings of military and civilian personnel.

(D) Witheld to avoid disclosing data for individual companies.

TABLE X-23. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN FEDERAL GOVERNMENT: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Mecosta	105	28	Lake	91	4
Clinton	196	15	Livingston	119	4
Ingham	139	11	Sanilac	83	- 4
Missaukee	172	11	Lapeer	92	4
Delta	144	11	St. Joseph	90	4
Calhoun	164	10	Muskegon	98	4
Midland	123	10	Bay	97	4
Kalkaska	(D)	10	Gratiot	73	4
Washtenaw	149	9	Jackson	78	3
Ottawa	142	8	Eaton	88	3
Charlevoix	138	8	Alcona	55	3
Oakland	91	8	Mason	108	3
Benzie	152	7	Luce	(D)	3
Montcalm	109	7	Leelanau	43	3
Iron	5	7	Branch	89	3
Genesee	104	7	Lenawee	87	3
Kalamazoo	106	7	Newaygo	114	3
Gladwin	142	7	Antrim	62	3
Cheboygan	218	6	Dickinson	103	3
Marquette	80	6	Otsego	88	2
Osceola	97	6	Arenac	110	2
St. Clair	98	6	Macomb	110	2
Saginaw	118	6	Berrien	87	2
Kent	103	6	Emmet	70	2
Grand Traverse	175	6	Oscoda	(D)	2
Chippewa	-71	6	Cass	75	2
Barry	89	6	Gogebic	102	1
Shiawassee	83	5	Wexford	128	1
Mackinac	171	5	Alger	99	1
Monroe	98	5	Alpena	-4	1
Roscommon	127	5	Menominee	76	1
Presque Isle	-28	5	Hillsdale	66	1
Clare	97	5	Houghton	110	1
Wayne	79	5	Ionia	107	1
Iosco	84	5	Schoolcraft	46	0
Van Buren	83	5	Crawford	-51	0
Ogemaw	94	5	Tuscola	87	0
Huron	92	5	Ontonagon	33	-1
Oceana	66	4	Montmorency	(D)	-1
Baraga	(D)	4	Keweenaw	(D)	(D)
Manistee	43	4			
Allegan	93	4	Michigan	91	5
Isabella	108	4	United States	107	6

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE X-24. RANKING OF MICHIGAN COUNTIES ACCORDING TO LABOR AND PROPRIETORS' EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS STATE OR LOCAL GOVERNMENT AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

County	Percentage		County	Percentage	
	1974	1984		1974	1984
Luce	65.09	74.74	Otsego	18.32	15.94
Mecosta	37.40	44.77	Mason	12.06	15.66
Keweenaw	24.18	40.23	Arenac	16.06	15.55
Roscommon	31.21	36.70	Menominee	13.18	15.39
Lapeer	27.89	34.92	Manistee	14.21	15.19
Houghton	27.73	31.59	Barry	13.05	15.06
Isabella	29.38	31.59	Benzie	15.77	15.00
Baraga	24.66	31.06	Cheboygan	12.68	14.97
Lake	22.11	30.82	Clinton	16.75	14.30
Oscoda	25.54	30.50	Sanilac	10.57	14.02
Gogebic	20.80	29.69	Wexford	13.37	13.95
Chippewa	18.11	28.53	Jackson	11.23	13.61
Iron	26.50	28.08	Lenawee	10.07	13.50
Tuscola	17.26	27.09	Delta	12.80	13.47
Branch	23.74	26.74	Dickinson	10.59	13.33
Schoolcraft	23.92	26.35	Monroe	12.52	13.33
Ingham	25.29	25.57	St. Clair	12.95	13.09
Ontonagon	9.78	25.52	Kalamazoo	13.83	12.97
Montmorency	19.73	25.06	Osceola	15.73	12.66
Oceana	17.36	23.97	Cass	12.71	12.63
Mackinac	22.62	23.76	Kalkaska	18.07	12.30
Washtenaw	24.08	22.40	Iosco	9.63	12.05
Ogemaw	15.83	20.96	Emmet	10.76	11.85
Crawford	20.54	20.80	Allegan	12.52	11.84
Clare	21.04	20.68	Hillsdale	11.34	11.55
Ionia	18.23	20.48	Montcalm	11.06	11.06
Alcona	25.52	20.38	Bay	10.83	11.02
Marquette	17.09	20.30	Gratiot	8.87	11.01
Alpena	16.71	20.07	St. Joseph	10.68	10.72
Antrim	13.83	19.45	Wayne	9.11	10.23
Van Buren	14.01	19.41	Berrien	8.21	9.42
Missaukee	17.39	19.37	Muskegon	9.76	9.31
Gladwin	18.00	18.95	Calhoun	8.09	9.18
Alger	20.39	18.42	Ottawa	9.66	8.65
Huron	12.37	18.30	Saginaw	7.84	8.32
Shiawassee	13.80	18.15	Genesee	8.72	8.10
Livingston	21.53	17.97	Macomb	9.01	7.66
Leelanau	11.19	17.95	Oakland	9.40	6.92
Eaton	16.94	16.91	Midland	6.44	6.75
Charlevoix	14.00	16.86	Kent	7.44	6.67
Newaygo	14.86	16.52			
Grand Traverse	18.11	16.24	Michigan	11.14	11.54
Presque Isle	14.83	15.97	United States	11.29	10.98

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

NOTE: Earnings of state and local employees include earnings of military (national guard) and civilian personnel. The latter include faculty and staff of state and local institutions of higher education, public schools, those who staff police and fire departments and other state and local units.

TABLE X-25. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN STATE AND LOCAL GOVERNMENT: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Ogemaw	190	69	Antrim	145	6
Montcalm	114	12	Oakland	97	5
Sanilac	106	12	Emmet	137	5
Mason	142	12	St. Joseph	115	5
Eaton	110	11	Branch	113	5
Cheboygan	133	11	Tuscola	139	5
St. Clair	111	10	Keweenaw	57	5
Iosco	132	10	Crawford	119	5
Charlevoix	147	10	Shiawassee	133	5
Gratiot	96	10	Wexford	152	4
Ottawa	150	9	Mackinac	116	4
Clare	114	9	Missaukee	103	4
Newaygo	136	9	Luce	148	4
Gladwin	123	9	Ontonagon	100	4
Barry	120	9	Chippewa	95	4
Clinton	85	8	Oceana	130	4
Alcona	78	8	Isabella	138	4
Menominee	154	8	Cass	112	4
Lake	119	8	Washtenaw	145	4
Kalkaska	164	7	Marquette	135	4
Kent	113	7	Baraga	108	4
Monroe	113	7	Schoolcraft	120	4
Alpena	118	7	Otsego	147	4
Dickinson	147	7	Kalamazoo	116	4
Livingston	129	7	Hillsdale	106	4
Ionia	124	7	Lapeer	159	3
Midland	113	6	Genesee	112	3
Huron	139	6	Iron	104	3
Van Buren	138	6	Muskegon	80	2
Houghton	136	6	Benzie	100	2
Jackson	104	6	Presque Isle	91	2
Wayne	78	6	Alger	69	2
Roscommon	166	6	Berrien	82	1
Lenawee	126	6	Bay	76	1
Grand Traverse	162	6	Osceola	54	-1
Mecosta	145	6	Manistee	121	-1
Saginaw	106	6	Oscoda	87	-1
Montmorency	98	6	Macomb	78	-3
Ingham	150	6	Calhoun	101	-4
Gogebic	110	6	Arenac	70	-5
Leelanau	121	6			
Allegan	110	6	Michigan	106	5
Delta	101	6	United States	132	7

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

XI. OUTDOOR ENVIRONMENT

Michigan's land area is 56,817 square miles, its water area 1,389 square miles. The state's highest elevation, Mount Curwood, in the Porcupine Mountains, is 1,980 feet above sea level. Michigan's lowest elevation of 572 feet is on Lake Erie.

The records of the General Services Administration indicate that the federal government owns or leases around 3,400,000 acres of land in the state. The Michigan Department of Natural Resources and the State Military Board own about 4,400,000 acres.

Land area of Michigan counties are given in the U.S. Census of Population: 1980. Statistics on gross county areas are available from the Michigan Department of Natural Resources.

Data pertaining to climate at Michigan weather stations are available in Climate of Michigan, by Stations, a publication of the Michigan Weather Service. Separate reports, Local Climatological Data, are available for the stations at Alpena, Detroit, Escanaba, Flint, Grand Rapids, Lansing, Marquette, Muskegon, and Sault Ste. Marie. The Michigan Weather Service also publishes specific reports, such as those on temperature extremes and snowfall.

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TABLE XI-1. STATE PARK USE AND TURNAWAY IN MICHIGAN: 1971-1985

Year	Number of day users[a]	Number of camper days[a]	Total attendance[a]	Number of camp permits	No. of vehicles turned away	
					Camping	Day use
1971	15,419	6,495	21,914	491,807	84,258	52,465
1972	12,941	6,251	19,191	485,616	59,730	27,719
1973	13,606	6,248	19,849	496,812	57,445	25,378
1974	13,358	6,128	19,486	471,313	71,711	31,973
1975	14,768	5,598	20,366	462,123	70,962	46,708
1976	16,132	5,882	22,014	482,787	77,218	35,085
1977	n.a.	n.a.	22,344	480,133	79,107	40,154
1978	n.a.	n.a.	23,656	475,551	66,613	65,708
1979	n.a.	n.a.	21,426	422,371	51,128	38,227
1980	15,598	5,187	20,784	403,450	55,333	47,527
1981	20,812	5,257	20,812	398,404	49,205	29,219
1982	15,342	5,334	20,677	405,402	50,650	26,890
1983	17,729	5,300	23,029	403,562	51,944	40,811
1984	17,030	5,254	22,283	393,073	49,541	37,154
1985	17,459	5,269	22,728	399,128	n.a.	n.a.

SOURCE: Michigan Department of Natural Resources, special release.

a. Figures in thousands.
b. Number of vehicles.
n.a.: not available.

TABLE XI-2. STATE FOREST CAMPGROUND USE: 1970-1984

Year	Number of camps	Number of campers	Camper days	Number of day users[a]
1970	68,623	268,164	995,974	329,934
1971	73,714	284,779	1,083,684	352,796
1972	70,899	268,099	996,409	356,170
1973	79,114	292,746	1,040,361	391,782
1974	77,716	288,243	1,070,023	391,782
1975	82,359	283,232	1,059,659	396,741
1976	88,024	304,784	1,122,527	529,000
1977	90,227	311,539	1,147,905	n.a.
1978	85,806	299,197	1,067,043	529,246
1979	73,143	248,167	748,090	380,530
1980	71,168	242,025	615,126	282,289
1981	76,606	258,573	537,291	243,411
1982	63,831	210,564	395,474	149,019
1983	59,492	201,179	398,080	156,755
1984	54,978	179,324	360,113	183,030

SOURCE: Michigan Department of Natural Resources, special release.

a. estimates.
n.a.: not available.

TABLE X-20. EXPENDITURES AND PERSONNEL, MILITARY AND CIVILIAN, OF THE DEPARTMENT OF DEFENSE BY INSTALLATION IN MICHIGAN, FISCAL YEAR 1984

Major locations of expenditures	Expenditures ($1,000)			Major locations of personnel	Military and civilian personnel		
	Total	Payroll outlays	Prime contracts		Total	Active duty military	Civilian
Warren	$877,725	$167,362	$710,363	Warren	5,493	3	5,490
Detroit	322,245	55,858	266,387	K. I. Sawyer AFB	4,497	4,062	435
Pontiac	271,576	3,056	268,520	Wurtsmith AFB	3,608	3,216	392
Walled Lake	215,168	1,422	213,746	Battle Creek	2,084	30	2,054
Center Line	124,838	270	124,568	Detroit	1,651	920	731
Grand Rapids	106,756	8,334	98,422	Selfridge ANGB	1,258	251	1,007
K. I. Sawyer AFB	93,991	77,684	16,307	Lansing	576	310	266
Muskegon AEP	86,068	0	86,068	Sterling Heights	567	1	566
Battle Creek	79,228	65,483	13,745	Sault Ste Marie	182	0	182
Wurtsmith AFB	78,937	63,693	15,244	Grand Rapids	127	23	104

SOURCE: U.S. Department of Defense, _Atlas/State Data Abstract for the United States, Fiscal Year 1984_, (Washington, D.C.: 1985).

TABLE X-21. TOP FIVE CONTRACTORS FOR DEPARTMENT OF DEFENSE IN MICHIGAN AND MAJOR LOCATIONS OF PERFORMANCE, FISCAL YEAR 1984

(In thousands of dollars)

Contractors receiving the largest dollar volume of prime contract awards	Total amount	Major area of work	
		FSC or service code description	Amount
General Dynamics Corp	$790,857	Combat assault & tactical VEH tracked	$484,214
General Motors Truck & Bus	266,541	Trucks and truck tractors wheeled	255,559
AM General Corporation	223,364	Trucks and truck tractors wheeled	214,568
Williams International Corp	212,718	RDTE/missile and space systems	174,568
Teledyne Industries, Inc.	83,589	Diesel engines and components	76,766
Total	$1,577,069		

SOURCE: U. S. Department of Defense, _Atlas/State Data Abstract for the United States, Fiscal Year, 1984_ (Washington, D.C.: 1985).

TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1983-1985

Name	Post office location	Acreage	Number of campsites	Attendance		
				1983	1984	1985
			Upper Peninsula			
Baraga	Baraga US-41	56	137	33,694	33,957	35,099
Bewabic	Crystal Falls US-2	275	144	51,853	46,746	67,250
Brimley	Brimley M-221	151	270	175,354	155,300	163,862
Detour[a]	St. Ignace M-34	403	22	n.a.	n.a.	n.a.
Fayette	Fayette US-2	711	80	101,770	99,635	101,423
Fort Wilkins	Copper Harbor US-41	199	165	173,641	176,080	189,569
Indian Lake	Manistique M-149	567	301	96,540	92,770	97,532
Lake Gogebic	Marenisco M-64	361	165	57,558	52,885	47,333
McLain	Hancock M-203	417	90	206,024	171,308	174,405
Muskallonge Lake	Newberry M-123	217	179	67,115	61,684	69,665
Palms Book	Manistique M-149	388	(b)	57,921	57,350	64,978
Porcupine Mtns	Ontonagon M-107	58,335	183	359,709	354,155	361,645
Straits	St. Ignace I-75	181	318	219,052	208,946	187,182
Tahquamenon Falls	Paradise M-123	35,733	319	479,148	469,148	462,769
Twin Lakes	Winona M-26	175	62	33,031	33,067	27,950
Van Riper	Champion US-41	1,044	226	84,985	75,147	72,350
J.W. Wells	Cedar River M-35	974	162	103,260	102,659	101,517
Subtotal				2,300,655	2,191,404	2,224,529
			Northern Lower Peninsula			
Aloha	Cheboygan M-212	91	287	191,439	159,453	133,581
Bay City	Bay City M-247	196	263	360,889	374,326	484,488
Burt Lake	Indian River I-75	405	375	187,918	166,967	176,169
Cheboygan	Cheboygan US-23	932	78	58,620	58,694	53,616

TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1983-1985 (cont.)

Name	Post office location	Acreage	Number of campsites	Attendance 1983	Attendance 1984	Attendance 1985
Northern Lower Peninsula (cont.)						
Clear Lake	Atlanta M-33	290	200	62,961	62,345	66,063
Fisherman's Island	n.a.	2,678	90	67,976	64,779	77,381
Gladwin[d]	Gladwin M-18	381	45	120	n.a.	n.a.
Harrisville	Harrisville US-23	94	229	122,326	114,230	105,147
Hartwick Pines	Grayling M-93	9,238	62	174,729	201,540	191,574
Hoeft	Rogers City US-23	301	144	51,422	49,055	50,568
Interlochen	Interlochen M-137	187	550	306,206	284,274	225,504
Leelanau[a]	Glen Arbor Co. Rd. 201	1,253	50	74,822	70,254	79,470
Ludington	Ludington M-116	4,514	398	836,785	828,521	770,212
Mears	Pentwater US-31	50	179	340,316	334,826	329,864
Mitchell	Cadillac M-115	32	270	366,074	368,671	324,873
Newaygo	Newaygo M-37	257	99	28,265	30,628	39,062
North Higgins Lake	Roscommon M-18, M-76	429	218	232,229	251,222	213,801
Onaway	Onaway M-211	158	101	47,846	44,468	44,728
Orchard Beach	Manistee M-110	201	175	95,672	102,176	113,777
Otsego Lake	Gaylord I-75	62	203	187,692	161,203	142,451
Petoskey	Petoskey US-31	305	90	229,585	234,615	229,034
Pinconning[e]	Pinconning M-13	201	(c)	3,277	n.a.	n.a.
Rifle River	Lupton M-33	4,329	181	110,727	115,043	117,529
Silver Lake	Mears US-31	2,675	249	684,444	706,613	682,135
South Higgins Lake	Roscommon US-27	305	512	397,324	344,887	337,225
Tawas Point	E. Tawas US-23	175	210	269,842	255,640	249,817
Traverse City	Traverse City US-31	45	343	263,331	274,935	258,833
White Cloud[f]	White Cloud M-20	89	80	160	n.a.	n.a.
Wilderness	Carp Lake US-31	7,514	210	143,966	146,752	138,328

TABLE XI-4. VISITOR DAYS OF USE OF NATIONAL FORESTS LOCATED IN MICHIGAN AND THE UNITED STATES: 1970-1984

(In thousands of visitor days)

Year	Michigan				United States total
	Huron-Manistee	Hiawatha	Ottawa	Total	
1970	1,664.0	1,587.6	991.2	4,242.8	172,554.5
1971	1,770.8	1,739.8	1,064.0	4,574.6	178,109.5
1972	1,901.3	1,704.1	1,117.0	4,722.4	183,958.3
1973	1,842.1	1,854.9	1,187.8	4,884.8	188,174.6
1974	1,955.6	1,821.9	1,240.5	5,018.0	192,915.8
1975	1,940.0	2,002.7	1,208.4	5,151.1	199,200.8
1976	2,154.8	2,030.3	1,289.6	5,474.7	199,928.1
1977	2,378.0	1,833.6	1,334.1	5,545.7	204,797.4
1978	2,390.2	1,749.2	1,363.4	5,502.8	218,496.3
1979	2,183.8	1,571.6	1,260.3	5,015.7	236,301.7
1980	2,652.7	1,683.3	1,150.8	5,486.8	233,549.3
1981	2,183.8	1,571.6	1,260.3	5,015.7	235,709.2
1982	2,853.0	1,675.0	1,124.0	5,626.7	233,438.0
1983	2,720.0	1,602.0	1,075.0	5,384.3	227,708.0
1984	1,994.6	1,527.5	1,130.4	4,652.5	227,553.9

SOURCE: U.S. Forest Service, special release.

TABLE XI-5. VISITORS TO ISLE ROYALE NATIONAL PARK AND TO PICTURED ROCKS AND SLEEPING BEAR DUNES NATIONAL LAKESHORES: 1970-1984

Year	Isle Royale	Pictured Rocks[a]	Sleeping Bear Dunes[b]
1970	14,411	--	--
1971	15,868	--	--
1972	16,116	287,094[c]	--
1973	15,439	296,537	--
1974	13,934	298,856	--
1975	16,818	279,262	775,000
1976	16,000	317,000	800,000
1977	16,676	297,189	837,976
1978	16,415	289,902	759,000
1979	14,810	272,416	733,463
1980	14,996	313,040	689,274
1981	14,564	331,815	759,014
1982	13,250	359,671	664,945
1983	12,296	443,286	685,208
1984	11,608	409,712	853,186

SOURCE: Isle Royale National Park, Pictured Rocks National Lakeshore, and Sleeping Bear Dunes National Lakeshore, special releases.

a. Records not available prior to 1972.
b. Records not available prior to 1975.
c. Eleven-month total, beginning with February.

TABLE XI-6. NUMBER OF RESIDENT AND NONRESIDENT HUNTING LICENSES ISSUED IN MICHIGAN: 1970-1984

	Small game		Deer-firearm		Deer-bow	
Year	Resident[a]	Nonresident	Resident[a]	Nonresident	Resident[a]	Nonresident
1970	581,855	6,202	616,173	12,729	58,234	3,584
1971	465,201	5,683	492,024	10,189	35,514	2,985
1972	445,589	6,396	455,304	9,108	30,400	2,576
1973	515,101	7,803	494,567	10,169	38,287	2,735
1974	564,476	8,609	551,928	11,820	46,269	2,851
1975	558,520	8,866	587,091	13,710	54,391	3,582
1976	503,165	7,601	535,550	13,781	57,184	4,287
1977	421,700	7,847	482,002	14,990	62,013	5,464
1978	353,073	7,059	522,520	16,388	--	6,793
1979	318,799	6,900	519,505	16,030	--	7,300
1980	378,365	5,571	651,333	10,597	152,521	4,039
1981	365,951	5,839	668,146	10,714	168,556	4,401
1982	335,895	5,795	649,018	10,339	177,620	4,903
1983	302,632	5,288	612,192	10,250	173,335	4,163
1984	297,685	5,333	614,738	9,976	172,305	4,434

SOURCE: Michigan Department of Natural Resources, special release.

a. Includes senior resident.

TABLE XI-7. NUMBER OF RESIDENT AND NONRESIDENT FISHING LICENSES ISSUED IN MICHIGAN: 1970-1984

	Resident		Nonresident		
Year	Senior	Annual[a]	7-day	Annual	Trout stamp[b]
1970	92,932	807,703	50,121	133,196	303,774
1971	97,169	837,462	53,164	137,460	312,432
1972	99,540	811,393	34,977	127,218	308,630
1973	103,805	832,539	35,175	131,671	311,565
1974	91,938	871,557	33,832	131,516	324,865
1975	95,206	916,571	36,907	137,919	352,207
1976	95,331	817,088	--	106,028	278,130
1977	94,659	770,299	--	99,971	253,235
1978	95,469	738,324	--	94,089	239,601
1979	94,069	718,779	--	91,278	271,618
1980	98,943	712,813	--	114,522	236,386
1981	125,333	865,394	--	72,078	354,703
1982	127,551	870,664	--	73,909	365,954
1983	127,375	842,481	--	72,964	365,669
1984	127,788	848,274	--	73,739	384,976

SOURCE: Michigan Department of Natural Resources, special release.

a. Includes 7-day licenses issued during 1968-1972.

b. Resident and nonresident.

TABLE XI-8. NUMBER OF REPORTED FOREST FIRES IN MICHIGAN AND ACREAGE BURNED AS A RESULT: 1970-1984

Year	Lightning	Campfire	Tobacco smoking	Debris burning	Incendiary	Equipment use	All other	Total
				Number of fires				
1970	39	64	203	461	152	239	237	1,395
1971	25	79	212	347	91	293	163	1,210
1972	17	66	166	324	77	223	187	1,060
1973	7	47	142	295	83	139	119	832
1974	20	45	176	343	109	196	140	1,029
1975	40	77	204	225	79	42	186	853
1976	99	159	258	296	131	103	295	1,341
1977	72	122	223	329	169	155	363	1,433
1978	8	68	120	160	95	47	223	721
1979	7	44	67	113	73	52	116	472
1980	16	65	96	303	116	88	159	843
1981	14	64	108	224	132	87	195	824
1982	11	36	52	178	52	44	113	486
1983	38	38	60	147	72	60	132	547
1984	18	34	51	227	85	71	127	613
				Acres burned				
1970	56	255	741	2,844	581	947	1,069	6,492
1971	60	449	1,344	1,630	831	993	287	5,597
1972	24	630	1,151	1,628	553	804	864	5,654
1973	7	160	615	1,069	322	241	250	2,664
1974	80	195	1,566	2,176	999	608	464	6,087
1975	143	342	1,041	1,467	4,788	275	8,715	16,775
1976	19,264	645	1,626	1,122	923	505	1,385	25,470
1977	805	710	1,396	3,911	1,563	2,074	1,650	12,109
1978	17	207	513	420	420	159	795	2,639
1979	15	113	152	410	1,049	391	169	2,299
1980	68	353	1,211	1,733	1,410	1,347	3,157	9,279
1981	102	258	404	2,821	2,620	410	1,892	7,607
1982	151	672	231	816	581	362	1,187	3,989
1983	177	75	342	824	1,351	397	1,209	4,375
1984	29	87	180	1,495	800	436	1,033	4,070

SOURCE: Michigan Department of Natural Resources, Forest Management Division, special release.

TABLE XI-9. LAND AREA AND INLAND WATER AREA OF MICHIGAN COUNTIES: AS OF 1981

(In square miles)

County	Land	Water	County	Land	Water
Alcona	679.01	16.50	Lake	567.77	6.20
Alger	911.66	36.60	Lapeer	658.04	4.40
Allegan	832.05	11.20	Leelanau	341.39	25.00
Alpena	567.49	34.10	Lenawee	752.54	8.95
Antrim	480.17	44.50	Livingston	574.33	11.00
Arenac	367.40	4.41	Luce	904.46	22.60
Baraga	900.80	27.96	Mackinac	1,025.49	66.60
Barry	560.09	16.80	Macomb	482.42	.30
Bay	447.30	7.45	Manistee	542.86	15.00
Benzie	322.23	26.50	Marquette	1,821.42	51.88
Berrien	576.10	4.30	Mason	494.48	16.41
Branch	508.03	11.10	Mecosta	560.21	10.00
Calhoun	711.50	6.90	Menominee	1,045.28	6.10
Cass	496.22	14.40	Midland	525.04	3.10
Charlevoix	420.99	36.80	Missaukee	564.86	7.50
Cheboygan	720.19	77.30	Monroe	556.69	6.90
Chippewa	1,590.20	184.77	Montcalm	712.58	7.60
Clare	570.03	6.10	Montmorency	550.03	12.10
Clinton	573.07	1.64	Muskegon	507.04	19.67
Crawford	558.84	4.60	Newaygo	846.79	15.33
Delta	1,173.25	25.50	Oakland	874.88	32.50
Dickinson	770.27	7.15	Oceana	540.88	5.07
Eaton	579.29	.90	Ogemaw	569.60	5.50
Emmet	467.87	16.50	Ontonagon	1,310.83	15.30
Genesee	641.55	8.02	Osceola	568.70	4.00
Gladwin	505.34	10.66	Oscoda	568.00	3.61
Gogebic	1,105.15	39.00	Otsego	515.64	10.53
Grand Traverse	466.21	27.80	Ottawa	567.09	8.70
Gratiot	570.44	1.09	Presque Isle	655.57	32.70
Hillsdale	602.91	3.60	Roscommon	528.08	52.00
Houghton	1,013.60	30.00	Saginaw	815.28	.40
Huron	829.76	22.20	St. Clair	734.27	17.30
Ingham	559.71	1.10	St. Joseph	502.54	15.47
Ionia	577.03	3.30	Sanilac	964.40	.00
Iosco	545.97	19.40	Schoolcraft	1,173.39	47.70
Iron	1,163.08	48.00	Shiawassee	540.36	.30
Isabella	576.59	1.30	Tuscola	812.08	5.10
Jackson	704.68	18.80	Van Buren	611.40	12.50
Kalamazoo	561.97	18.30	Washtenaw	710.25	12.50
Kalkaska	562.96	7.40	Wayne	615.10	20.00
Kent	861.77	10.90	Wexford	565.65	10.80
Keweenaw	543.48	49.30	MICHIGAN	56,953.96	1,573.27

SOURCE: U.S. Bureau of the Census, special release.

XII. AGRICULTURE

Michigan Agricultural Statistics is an annual publication of the Michigan Department of Agriculture. Many of the data in this chapter are statistics that appeared in the latest edition.

The Agricultural Experiment Station and the Extension Service at Michigan State University also are sources of information. A list of the research reports issued by the Agricultural Experiment Station is available on request.

Income and employment statistics on agriculture in Michigan counties are prepared annually by the Bureau of Economic Analysis, U.S. Department of Commerce. These are the most comprehensive accounts of agricultural activity for individual counties. They form the basis for the evaluation of agriculture's importance in Table XII-21.

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TABLE XII-1. MICHIGAN'S RANK IN THE NATION'S AGRICULTURE: 1985

Commodity	Rank Among States	Production	Unit	Percent of U.S. Production	Leading State
		1,000			
Tart Cherries	1	220,000	Lbs.	76.9	Michigan
Cucumbers for Pickles	1	134.4	Tons	19.4	Michigan
All Dry Beans	1	5,412	Cwt.	24.3	Michigan
Navy Beans	1	4,355	Cwt.	68.6	Michigan
Cranberry Beans	1	261	Cwt.	100.0	Michigan
Black Turtle Beans	1	165	Cwt.	69.6	Michigan
Geraniums, Potted	1	11,035	Pots	14.5	Michigan
Easter Lilies, Potted	1	885	Pots	13.5	Michigan
Bedding Plants	1	7,060	Flats	14.1	Michigan
Sweet Cherries	2	31,000	Lbs.	23.3	Washington
Prunes and Plums	2	11	Tons	21.7	Oregon
Red Kidney Beans	2	398	Cwt.	26.7	California
Gladioli	2	20,160	Spikes	12.7	Florida
Apples	3	1,100,000	Lbs.	14.1	Washington
Asparagus	3	230	Cwt.	10.8	California
Celery	3	1,312	Cwt.	7.1	California
Mushrooms	3	19,501	Lbs.	3.3	Pennsylvania
Tomatoes, Processing	3	166.3	Tons	2.3	California
Small White Beans	3	125	Cwt.	23.4	Washington
African Violets, Potted	3	840	Pots	7.1	California
Carrots	4	1,664	Cwt.	7.3	California
Non-Fat Dry Milk	4	105,938	Lbs.	7.6	California
Snap Beans, Processing	4	48.6	Tons	6.9	Wisconsin
Other Lilies, Potted	4	40	Pots	4.5	California
Grapes	4	51	Tons	.9	California
Sugarbeets	5	2,325	Tons	10.3	Minnesota
Alfalfa Hay	5	5,040	Tons	5.9	Wisconsin
Peaches	5	55,000	Lbs.	4.7	California
Pears	5	8	Tons	1.1	California
Floriculture	5	74,793	Dollars	4.4	Florida
Poinsettias, Potted	5	2,545	Pots	2.6	California
Milk	6	5,568,000	Lbs.	3.9	Wisconsin
Butter	6	45,608	Lbs.	3.7	Wisconsin
Creamed Cottage Cheese	6	36,071	Lbs.	5.0	New York
Spearmint	6	92	Lbs.	4.0	Washington
Strawberries	6	163	Cwt.	1.6	California
Cauliflower	6	98	Cwt.	1.5	California

TABLE XII-1. MICHIGAN'S RANK IN THE NATION'S AGRICULTURE: 1985 (cont.)

Commodity	Rank Among States	Production	Unit	Percent of U.S. Production	Leading State
Oats	7	26,130	Bushels	5.0	S. Dakota
Onions	7	2,535	Cwt.	5.7	California
Corn, Sweet	7	780	Cwt.	5.0	Florida
Ice Milk	7	11,609	Gallons	3.9	California
Mink	7	166.5	Pelts	4.0	Wisconsin
Corn for Grain	8	206,650	Bushels	3.2	Iowa
Corn for Silage	8	4,590	Tons	4.5	Wisconsin
All Hay	9	5,705	Tons	3.8	Wisconsin
Ice Cream	9	35,334	Gallons	3.9	California
Rye	9	651	Bushels	3.2	S. Dakota
Pinto Beans	9	64	Cwt.	.8	Colorado
Lettuce	9	300	Cwt.	.5	California
Potatoes	10	15,136	Cwt.	3.7	Idaho
Milk Sherbet	11	1,524	Gallons	3.2	California
Tomatoes, Fresh Market	11	320	Cwt.	1.1	Florida
Hogs and Pigs[1]	12	1,190	Head	2.3	Iowa
Winter Wheat	12	45,000	Bushels	2.5	Kansas
Eggs	13	1,693,000	Eggs	2.5	California
Turkeys	16	2,300	Birds	1.2	N. Carolina
Soybeans	17	34,560	Bushels	1.6	Illinois
Cash Receipts from Marketings	19	2,966,529	Dollars	2.1	California

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1986).

[1] December 1 inventory.

TABLE XII-2. GROSS FARM INCOME, PRODUCTION EXPENSES, AND REALIZED NET INCOME IN MICHIGAN AND U.S. AGRICULTURE: 1950-1984

	Total ($000,000)			Per farm ($)	
Year	Gross income	Production expenses	Net farm income[c]	Gross income[d]	Net farm income[c]
			Michigan		
1950-1954[a]	833	508	325	5,507	2,163
1955-1959[a]	835	571	244	6,365	1,887
1960-1964[a]	919	663	256	8,386	2,333
1965-1969[a]	1,033	754	279	11,265	3,030
1970-1974[a]	1,411	1,028	383	17,396	4,735
1976	1,950	1,593	321	25,994	4,284
1977[b]	2,251	1,747	466	33,101	6,851
1978	2,414	1,965	466	36,577	7,061
1979	2,687	2,264	520	40,705	7,876
1980	3,186	2,606	546	49,017	8,926
1981	3,308	2,866	592	50,889	6,802
1982	3,356	2,958	503	52,439	6,216
1983	3,580	3,043	281	55,933	8,391
1984	3,502	3,103	601	55,583	6,332
			United States		
1950-1954[a]	34,996	21,574	13,422	6,739	2,603
1955-1959[a]	35,571	24,309	11,262	8,168	2,637
1960-1964[a]	41,258	29,931	11,327	11,193	3,126
1965-1969[a]	50,791	37,996	12,795	16,073	4,162
1970-1974[a]	76,949	56,376	20,574	26,971	7,506
1975		75,863	24,475	35,037	8,846
1976	104,177	83,130	18,682	38,051	6,823
1977[b]	107,713	90,293	18,391	43,843	7,563
1978	126,972	101,087	26,458	51,876	11,351
1979	146,570	119,217	32,697	59,842	13,272
1980	155,497	129,389	20,180	63,925	10,733
1981	160,216	136,125	29,842	65,826	9,898
1982	162,991	136,917	24,644	67,897	10,861
1983	161,188	135,626	14,997	68,006	10,785
1984	166,200	139,496	34,530	71,379	11,469

SOURCE: K.T. Wright and Daniel A. Deuweke, The Changing Scene in Michigan Agriculture, Extension Bulletin E-1253 (East Lansing: Cooperative Extension Service, Michigan State University, 1978), Table 7; Economic Indicators of the Farm Sector, State Financial Summary, 1984 (Washington, D.C.: Economic Research Service, U.S. Department of Agriculture, 1985), Table 4; and Michigan Agricultural Statistics (Lansing: Michigan Agricultural Reporting Service, Michigan Department of Agriculture, 1986), p. 13, and similar documents for previous years.

a. Five-year average.

b. Beginning with 1977, based on the 1974 Census of Agriculture definition of a farm with sales of $1,000 or more.

c. Includes changes in inventories.

d. Excludes changes in inventories and represents income of farm operators.

TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1983-1985 (cont.)

Name	Post office location	Acreage	Number of campsites	Attendance		
				1983	1984	1985
	Northern Lower Peninsula (cont.)					
Wilson	Harrison I-75	36	160	117,163	90,522	97,070
Young	Boyne City M-75	563	293	151,547	141,141	135,467
Subtotal and average increase				6,165,673	6,037,780	5,885,767
	Southern Lower Peninsula					
Algonac	Algonac M-29	1,023	281	266,652	306,391	247,238
Bald Mountain	Lake Orion M-24	4,637	n.a.	424,767	407,041	426,474
Brighton	Howell I-96	4,913	222	251,733	238,319	250,014
Dodge #4	Pontiac M-59	139	(b)	564,189	464,289	476,544
Duck Lake[a]	Muskegon	704	n.a.	100,588	94,925	64,549
Fort Custer	Augusta I-94	2,962	112	228,840	232,369	261,506
Grand Haven	Grand Haven US-31	48	170	853,918	829,098	1,041,031
W. J. Hayes	Onsted US-12	654	210	721,326	581,479	613,858
Highland	Milford M-59	5,524	39	343,950	349,840	278,138
Hoffmaster	Muskegon US-31	1,043	333	480,260	447,840	465,652
Holland	Holland US-31	142	368	1,768,719	1,618,920	1,571,070
Holly	Holly I-75	7,470	160	828,691	728,683	847,075
Ionia	Saranac M-66	2,998	n.a.	42,659	26,798	120,235
Island Lake	Brighton I-96	3,466	25	528,222	487,712	368,217
Lake Hudson	Clayton M-156	2,650	(b)	76,197	105,185	93,703
Lakeport	Port Huron US-23	565	300	256,578	236,132	244,243
Maybury	Northville	944	n.a.	152,339	198,349	236,135
Metamora-Hadley	Metamora M-24	683	220	174,892	168,000	151,534
Muskegon	North Muskegon M-213	1,125	348	421,210	422,720	488,094
Ortonville	Ortonville M-75	3,205	32	123,105	111,695	109,193

TABLE XI-3. LOCATION, ACREAGE, NUMBER OF CAMPSITES, AND USAGE OF MICHIGAN STATE PARKS: 1983-1985 (cont.)

Name	Post office location	Acreage	Number of campsites	Attendance		
				1983	1984	1985
	Southern Lower Penisula (cont.)					
Pinckney	Pinckney M-36	9,994	255	622,788	521,425	528,720
Pontiac Lake	Pontiac M-59	3,700	174	261,563	252,941	330,736
Port Crescent	Port Austin M-25	655	181	164,976	174,871	184,788
Proud Lake	Milford I-96	3,614	110	319,648	319,907	374,625
Rochester-Utica	Utica M-59	1,334	n.a.	404,650	454,269	501,085
Sanilac[a]	Port Austin US-25	112	19	n.a.	n.a.	n.a.
Saugatuck	Saugatuck	866	(b)	36,098	30,910	36,505
Seven Lakes	Fenton US-23, I-75	1,378	(b)	144,590	116,381	120,935
Sleeper	Caseville M-25	1,003	280	216,785	238,669	224,096
Sleepy Hollow	Lansing US-27	2,678	20	174,030	218,045	170,453
Sterling	Monroe I-75	1,000	288	803,493	826,097	947,866
Van Buren	South Haven I-196	326	205	249,999	310,658	290,567
Warren Dunes	Sawyer I-94	1,507	197	1,319,911	1,315,527	1,323,982
Waterloo	Chelsea I-94	18,027	434	567,295	549,689	541,123
Yankee Springs	Middleville M-37	5,004	345	668,287	669,023	687,626
Subtotal				14,562,948	14,054,197	14,617,610
Grand Total				23,029,276	22,283,381	22,727,906

SOURCE: Michigan Department of Natural Resources, special release.

a. Detour is administrated by Straits; Palms Book by Indian Lake; Leelanau by Traverse City; Duck Lake by Muskegon; and Sanilac by Port Crescent.

b. No camping permitted.

c. Under development.

d. Now administered by the City of Gladwin.

e. Now administered by the Waterways Division of the Department of Natural Resources.

f. Now administered by the City of White Cloud.

n.a.: not available.

TABLE XII-7. PRICES RECEIVED BY MICHIGAN FARMERS FOR CROPS, LIVESTOCK, POULTRY, AND PRODUCTS: 1981-1985 MARKETING YEARS

Item	1981	1982	1983	1984	1985
Hogs ($ per cwt)	43.70	52.50	47.00	46.80	43.90
Beef cattle ($ per cwt)	49.50	48.00	47.20	48.20	46.30
Cows ($ per cwt)	41.30	39.30	39.10	38.50	36.10
Steers and heifers ($ per cwt)	56.20	55.80	54.30	56.50	52.10
Milk cows ($ per head)	1,280.00	1,150.00	1,070.00	915.00	865.00
Calves ($ per cwt)	65.20	57.20	57.00	54.10	53.30
Eggs (¢ per dozen)	.54	.51	.52	.60	.42
All wholesale milk ($ per cwt)	13.80	13.60	13.60	13.50	12.70
Corn (per bushel)	2.39	2.55	3.20	2.60	2.42
Wheat (per bushel)	3.47	3.33	3.40	3.20	3.07
Oats (per bushel)	1.97	1.49	1.83	1.85	1.47
Soybeans (per bushel)	6.02	5.46	7.82	5.90	5.29
Dry beans (per cwt)	25.60	13.70	23.20	20.00	17.26
Navy beans (per cwt)	25.90	13.70	21.50	18.60	14.20
Potatoes (per cwt)	6.30	4.65	6.60	5.60	5.63
All hay (per ton)	56.50	54.50	57.50	52.00	54.42

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1986).

TABLE XII-8. FIRST FIVE RANKING COUNTIES IN MICHIGAN FOR SELECTED CROP PRODUCTION: 1985

Item	1	2	3	4	5
Corn	Lenawee	Huron	Hillsdale	Tuscola	St. Joseph
Soybeans	Lenawee	Saginaw	Monroe	Gratiot	Shiawassee
Wheat	Huron	Tuscola	Sanilac	Saginaw	Clinton
Dry beans	Huron	Tuscola	Gratiot	Bay	Sanilac
Oats	Sanilac	Huron	Shiawassee	Washtenaw	St. Clair

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI: 1986).

TABLE XII-9. ACREAGE, YIELD, PRODUCTION, AND VALUE OF MICHIGAN FIELD CROPS: 1981-1985

Crop	Year	Acreage Planted (1,000)	Acreage Harvested (1,000)	Production Per acre (1,000)	Production Total (1,000)	Price received per unit[a] (dollars)	Value of production ($1,000)
Corn, all (bu)	1981	3,200	n.a.	n.a.	n.a.	n.a.	n.a.
	1982	3,150	n.a.	n.a.	n.a.	n.a.	n.a.
	1983	2,200	n.a.	n.a.	n.a.	n.a.	n.a.
	1984	3,050	n.a.	n.a.	n.a.	n.a.	n.a.
	1985	3,100	n.a.	n.a.	n.a.	n.a.	n.a.
Corn, grain (bu)	1981	n.a.	2,800	96.0	268,800	2.39	642,432
	1982	n.a.	2,740	107.0	293,180	2.55	747,609
	1983	n.a.	1,800	92.0	165,600	3.35	554,760
	1984	n.a.	2,620	84.0	220,080	2.56	563,405
	1985	n.a.	2,730	105.0	286,650	2.35	673,628
Corn, silage	1981	n.a.	370	13.0	4,160	19.80	82,368
	1982	n.a.	390	13.5	4,185	19.40	81,189
	1983	n.a.	380	13.0	4,940	24.50	121,030
	1984	n.a.	400	11.0	4,400	n.a.	n.a.
	1985	n.a.	340	13.5	4,590	n.a.	n.a.
Wheat, winter (bu)	1981	840	830	50.0	41,500	3.47	144,005
	1982	650	560	41.0	22,960	3.33	76,457
	1983	830	730	49.0	35,770	3.35	119,830
	1984	900	800	57.0	45,600	3.18	145,008
	1985	770	750	60.0	45,000	2.95	132,750
Oats (bu)	1981	360	340	62.0	21,080	1.97	41,528
	1982	475	450	63.0	28,350	1.49	42,242
	1983	450	300	52.0	15,600	1.90	29,640
	1984	370	350	62.0	21,700	1.84	39,928
	1985	420	390	67.0	26,130	1.15	30,050
Barley (bu)	1981	27	26	54.0	1,404	2.98	4,184
	1982	38	36	59.0	2,124	2.39	5,076
	1983	35	33	49.0	1,617	2.80	4,528
	1984	35	34	60.0	2,040	2.50	5,100
	1985	39	38	68.0	2,584	2.00	5,168
Rye (bu)	1981	130	16	28.0	448	2.00	1,299
	1982	135	18	29.0	522	3.00	1,566
	1983	135	20	30.0	600	2.05	1,230
	1984	140	21	28.0	588	2.25	1,323
	1985	135	21	31.0	651	1.90	1,237
Soybeans (bu)	1981	1,050	1,040	30.0	31,200	6.02	187,824
	1982	1,150	1,140	31.0	35,340	5.46	192,956
	1983	1,050	1,040	32.0	33,280	8.25	274,560
	1984	1,200	1,190	27.0	32,130	5.73	184,105
	1985	1,100	1,080	32.0	34,560	5.05	174,528
Dry beans[b]	1981	650	590	1,220	7,198	25.60	184,269
	1982	560	550	1,450	7,975	13.70	109,258
	1983	360	350	1,300	4,550	24.10	109,655
	1984	400	390	1,100	4,290	19.60	84,084
	1985	440	410	1,320	5,412	15.80	85,510

TABLE XII-9. ACREAGE, YIELD, PRODUCTION, AND VALUE OF MICHIGAN FIELD CROPS: 1981-1985 (cont.)

Crop	Year	Acreage		Production		Price received per unit[a] (dollars)	Value of production ($1,000)
		Planted (1,000)	Harvested (1,000)	Per acre (1,000)	Total (1,000)		
Potatoes[b], all	1981	47.0	44.8	235	10,535	6.30	66,371
	1982	51.5	49.3	260	12,796	4.65	59,501
	1983	55.0	52.8	228	12,023	6.15	73,941
	1984	58.0	56.8	266	15,100	5.70	86,122
	1985	60.0	57.8	262	15,136	4.40	66,895
Potatoes summer (cwt)	1981	10.0	9.8	200	1,960	7.05	13,818
	1982	10.5	10.3	220	2,266	4.45	10,084
	1983	12.0	11.8	185	2,183	n.a.	n.a.
	1984	13.0	12.8	200	2,560	6.70	17,152
	1985	14.0	13.8	220	3,036	n.a.	n.a.
Potatoes fall (cwt)	1981	37.0	35.0	245	8,575	6.15	52,736
	1982	41.0	39.0	270	10,530	4.70	49,491
	1983	43.0	41.0	240	9,840	n.a.	n.a.
	1984	45.0	44.0	285	12,540	5.50	68,970
	1985	46.0	44.0	275	12,100	n.a.	n.a.
Hay, all (ton)	1981	n.a.	1,270	3.22	4,094	56.50	231,311
	1982	n.a.	1,370	3.17	4,347	54.50	236,912
	1983	n.a.	1,400	3.19	4,470	59.50	265,965
	1984	n.a.	1,750	3.02	5,285	61.50	325,028
	1985	n.a.	1,750	3.26	5,705	55.00	313,775
Hay, alfalfa (ton)	1981	n.a.	1,000	3.50	3,500	n.a.	n.a.
	1982	n.a.	1,050	3.50	3,675	n.a.	n.a.
	1983	n.a.	1,100	3.60	3,960	n.a.	n.a.
	1984	n.a.	1,400	3.30	4,620	n.a.	n.a.
	1985	n.a.	1,400	3.60	5,040	n.a.	n.a.
Spearmint, for oil (lb)	1981	n.a.	3.8	31	118	15.50	1,829
	1982	n.a.	3.9	32.0	125	14.30	1,788
	1983	n.a.	3.8	31	118	13.00	1,534
	1984	n.a.	3.8	33.0	125	13.60	1,700
	1985	n.a.	3.3	28.0	92	12.10	1,113
Sugarbeets(ton)	1981	102.0	99.0	20.5	2,030	26.50	53,795
	1982	97.5	96.5	19.2	1,853	35.80	66,337
	1983	106.0	104.0	19.0	1,976	n.a.	n.a.
	1984	110.0	108.0	19.6	2,117	34.40	72,825
	1985	124.0	118.0	19.7	2,325	n.a.	n.a.

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1986).

a. Marketing year

b. Production per acre in pounds.

n.a.: Not available.

TABLE XII-3. ACREAGE AND PRODUCTION OF MAJOR MICHIGAN CROPS: 1960-1985

Crop	1960-1964[a]	1965-1969[a]	1970-1974[a]	1979	1980	1981	1982	1983	1984	1985
				Harvested acreage (Thousands of acres)						
All corn	1,895	1,734	2,063	2,870	2,925	3,170	3,130	2,180	3,020	3,070
Winter wheat	1,019	839	604	735	800	830	560	730	800	750
Oats	745	519	376	310	335	340	450	300	350	390
Tame hay	1,791	1,549	1,320	1,330	1,310	1,270	1,370	1,400	1,750	1,750
Soybeans	300	481	569	1,010	950	1,040	1,140	1,040	1,190	1,080
Dry beans[b]	567	600	577	460	570	590	550	350	390	410
Sugar beets	74	80	85	88	97	99	97	104	108	118
Potatoes	45	44	42	41	43	45	49	53	57	58
Vegetables	n.a.	n.a.	n.a.	n.a.	55	56	64	64	106	108
Fruit	152	152	157	105	104	102	100	105	110	113
				Production (Thousands of units)						
All corn (bu)[c]	92,302	93,193	124,393	237,500	243,200	268,800	293,180	165,600	220,080	286,650
Winter wheat (bu)	36,365	30,849	23,084	31,605	35,200	41,500	22,960	35,770	45,600	45,000
Oats (bu)	37,215	27,392	19,988	18,910	20,100	21,080	28,350	15,600	21,700	26,130
Tame hay (tons)	3,356	3,330	3,065	3,937	4,048	4,094	4,347	4,470	5,285	5,705
Soybeans (bu)	6,783	10,904	13,397	30,300	32,101	31,200	35,340	33,280	32,130	34,560
Dry beans (cwt)	7,437	6,775	6,231	6,440	7,752	7,198	7,975	4,550	4,290	5,412
Sugar beets (tons)	1,153	1,355	1,571	1,550	1,892	2,030	1,853	1,976	2,117	2,325
Potatoes (cwt)[d]	13,708	14,678	16,089	9,548	10,020	10,535	12,796	12,023	15,100	15,136
Fruit (000 lb)	n.a.	n.a.	n.a.	1,032	1,291	985	1,513	1,068	1,235	1,577
Vegetables (000 cwt)	n.a.	n.a.	n.a.	n.a.	8,301	9,774	12,472	11,675	15,189	14,437

SOURCE: K.T. Wright and Daniel A. Dueweke, The Changing Scene in Michigan Agriculture, Extension Bulletin E-1253 (East Lansing: Cooperative Extension Service, Michigan State University, 1978), Tables 1 and 2; and Michigan Agricultural Reporting Service, Michigan Agricultural Statistics (Lansing, 1986).

a. Five-year average.

b. Production per acre in pounds

c. Grain only, excludes silage.

d. Measured in bushels prior to 1978.

TABLE XII-4. MAJOR LIVESTOCK INVENTORY AND PRODUCTION OF MAJOR LIVESTOCK PRODUCTS IN MICHIGAN: 1960-1974 AND 1980-1986

Livestock or product	1960-1964[a]	1965-1969[a]	1970-1974[a]	1980	1981	1982	1983	1984	1985	1986
				Inventory, 1 January (thousands)						
All cattle & calves										
Milk cows	698	568	435	400	390	396	400	402	390	397
Beef cows	119	141	192	140	140	194	195	158	160	153
Total	1,759	1,587	1,552	1,310	1,340	1,450	1,500	1,475	1,450	1,410
Hogs & pigs	809	652	756	1,040	830	690	900	1,250	1,310	1,190
Sheep & lambs	365	290	278	132	124	125	110	110	110	108
Chickens (all)	7,961	8,466	8,126	8,000	8,200	8,100	8,100	7,750	9,000	8,900
Turkeys (hens)	82	86	76	44	52	50	45	38	38	n.a.
				Production (millions of pounds)						
Milk	5,485	4,897	4,670	4,970	5,103	5,253	5,528	5,350	5,568	n.a.
Cattle & calves	460	473	476	393	415	462	461	454	464	n.a.
Hogs	260	220	264	331	288	288	396	445	387	n.a.
Sheep & lambs	21	15	11	9	8	8	8	9	9	n.a.
Eggs (millions produced)	1,410	1,540	1,486	1,459	1,541	1,525	1,484	1,519	1,693	n.a.
Chickens (1,000 head raised)	6,067	5,638	5,800	5,250	5,650	5,100	5,100	5,500	5,500	n.a.
Turkeys (1,000 head raised)	1,241	1,158	1,040	1,450	1,600	1,800	1,900	2,100	2,300	n.a.
Commercial broilers (1,000 head raised)	2,732	1,200	697	1,552	1,130	1,180	1,130	1,130	1,300	n.a.

SOURCE: K.T. Wright and Daniel A. Dueweke, *The Changing Scene in Michigan Agriculture*, Extension Bulletin E-1253 (East Lansing: Cooperative Extension Service, Michigan State University, 1978), Tables 3 and 4; and Michigan Agricultural Reporting Service, *Michigan Agricultural Statistics* (Lansing, 1986).

a. Five-year average.

n.a.: not available.

TABLE XII-5. MICHIGAN CASH RECEIPTS FROM FARM MARKETINGS: 1977-1984

(In thousands of dollars)

Item	1977	1978	1979	1980	1981	1982	1983	1984
Livestock and products	831,355	984,560	1,003,800	1,123,606	1,112,551	1,176,317	1,266,835	1,297,626
Dairy	452,265	496,661	571,725	647,491	693,961	703,906	739,946	709,538
Cattle and calves	197,986	306,803	208,565	243,689	183,207	234,484	252,844	248,224
Hogs	91,094	87,278	124,490	135,678	129,020	132,554	163,245	203,601
Eggs	61,898	57,811	61,336	57,760	68,670	64,473	63,743	75,350
Sheep and lambs	3,889	5,320	4,116	5,438	3,455	4,017	3,389	4,586
All chickens	2,932	3,871	5,438	3,640	3,366	3,041	3,607	3,338
Wool	744	697	682	n.a.	n.a.	n.a.	n.a.	n.a.
Other	20,547	26,119	27,448	29,910	30,872	33,842	40,061	52,989
Crops	1,119,141	1,071,697	1,317,666	1,596,597	1,644,132	1,574,213	1,634,202	1,479,372
Field crops								
Corn	286,968	248,791	318,719	508,032	456,916	490,884	500,262	377,363
Dry edible beans	111,802	80,783	111,234	149,250	221,321	114,148	121,710	94,964
Soybeans	134,660	97,133	194,586	234,851	176,847	209,013	224,045	209,116
Sugarbeets	36,100	41,595	60,295	77,004	53,795	66,337	70,741	72,781
Wheat	82,324	50,355	102,468	121,899	136,010	73,173	124,354	99,402
Potatoes	40,961	37,269	38,256	56,580	53,868	51,038	66,003	62,090
Hay	26,160	32,403	23,267	24,104	31,690	37,595	38,867	44,743
Oats	16,247	15,204	16,635	22,011	27,765	20,571	22,794	14,891
Mushrooms[a]	n.a.	8,742	9,060	13,049	16,319	13,446	15,977	16,367
Mint	1,304	1,310	1,475	1,498	1,829	1,788	1,536	1,536
Red clover seed	1,041	813	745	580	561	f	f	f
Rye	418	681	984	911	809	923	753	743
Barley	1,740	1,492	1,315	1,332	1,848	2,491	2,136	2,646
Vegetables	111,991	128,437	118,911	126,563	158,399	158,186	172,762	146,385
Other	17,794	8,826	11,381	11,828	11,564	12,911	12,943	13,595

TABLE XII-5. MICHIGAN CASH RECEIPTS FROM FARM MARKETINGS: 1977-1984 (cont.)

(In thousands of dollars)

Item	1977	1978	1979	1980	1981	1982	1983	1984
Fruit								
Apples	52,914	73,192	75,204	48,214	75,031	57,744	62,022	61,816
Blueberries[c]	8,378	17,820	16,164	16,400	26,572	d	d	d
Cherries	57,901	73,370	59,359	40,593	49,334	36,805	50,862	62,559
Grapes	7,072	15,000	13,810	11,825	13,296	11,710	11,593	8,095
Peaches	8,502	9,504	6,693	7,584	6,624	9,504	7,418	7,610
Strawberries	6,280	7,973	10,041	7,001	8,296	11,476	8,412	7,076
Pears	1,673	2,930	1,703	2,141	1,924	2,334	1,804	2,326
Plums and prunes	1,953	3,279	2,848	2,550	2,206	2,694	2,514	3,245
Other	8,872	777	971	1,030	1,108	24,442[e]	30,694[e]	22,602[e]
Other products								
Forest and maple	12,657	14,768	16,475	f	f	f	f	f
Greenhouse, nursery, ornamentals	91,807	99,250	105,067	109,767	110,200	165,000	84,000	147,421
All commodities	1,950,496	2,056,257	2,321,466	2,720,203	2,756,683	2,750,530	2,901,037	2,776,998
Government payments	21,195	45,510	15,593	10,666	17,263	40,417	144,389	167,669
TOTAL	1,971,691	2,101,767	2,377,059	2,730,869	2,773,946	2,790,947	3,045,426	2,944,667

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics, 1977 through 1986 (Lansing: annually).

a. Prior to 1979, mushrooms included in other crops.
b. Included in other crops.
c. Prior to 1975, blueberries included in other.
d. Included in other fruit.
e. Includes blueberries.
f. Forestry products receipts no longer counted as cash receipts, but are included in other farm-related income component of gross farm income. Maple products now included in other crops.
n.a.: not available.

TABLE XII-6. MICHIGAN INDEXES OF PRICES RECEIVED BY FARMERS: 1910-1985

Item	1910-1914	1935-1939	1947-1949	1970	1979	1980	1981	1982	1983	1984	1985
Livestock											
All livestock	19	23	55	65	137	138	138	138	135	136	127
Dairy products	16	19	45	60	136	143	143	141	141	140	132
Meat animals	17	21	57	70	135	142	135	142	132	136	129
Poultry and eggs	49	55	113	73	102	120	109	99	108	112	84
Crops											
All crops	22	21	55	51	113	126	132	118	119	133	107
Cash field	25	25	65	51	114	131	160	127	127	139	117
Fruits	17	17	41	44	125	134	107	109	86	107	84
Vegetables	--	13	34	56	92	104	137	121	83	123	74
Feed crops	39	31	73	56	110	122	121	115	129	138	112

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1986).

NOTE: Indexes are calculated using 1977 as the base year.

TABLE XII-12. MICHIGAN VEGETABLES FOR PROCESSING, ACREAGE, YIELD, PRODUCTION, AND VALUE: 1981-1985

Crop and season	Year	Acres planted	Acres harvested	Production: Per acre tons	Production: Total tons	Price received per ton	Value of production ($1,000)
Snap beans	1981	14,600	14,300	2.53	36,180	160.00	5,789
	1982	14,600	14,200	2.58	36,640	145.00	5,313
	1983	15,100	14,800	2.80	41,440	144.00	5,967
	1984	18,400	17,500	2.80	49,000	136.00	6,664
	1985	19,000	18,700	2.60	48,620	158.00	7,682
Cucumbers for Pickles	1981	16,300	15,500	6.50	100,750	135.00	13,601
	1982[a]	--	--	--	--	--	--
	1983[a]	--	--	--	--	--	--
	1984	22,000	21,300	5.50	117,150	147.00	17,221
	1985	25,000	24,000	5.60	134,400	158.00	21,235
Tomatoes	1981	6,400	6,200	19.08	118,300	86.00	10,174
	1982	9,800	9,700	21.10	204,670	92.60	18,952
	1983	9,300	9,200	19.90	183,080	84.00	15,379
	1984	8,000	7,400	23.50	173,900	84.00	14,608
	1985	6,800	6,600	25.20	166,320	80.00	13,306

SOURCE: Michigan Department of Agriculture, special release.

NOTE: Processing vegetables estimated but not published to avoid disclosure of individual operations include: beets, cabbage for kraut, sweet corn and green peas.

a. No estimates made.

TABLE XII-13. QUANTITY AND VALUE OF LIVESTOCK AND POULTRY ON FARMS, MICHIGAN AND THE UNITED STATES: 1 JANUARY 1982-1986

	Michigan			United States		
Species and year	Number (1,000)	Value per head or bird	Total value ($1,000)	Number (1,000)	Value per head or bird	Total value ($1,000)
All cattle and calves						
1986	1,410	475.00	669,750	105,468	391.00	41,280,203
1985	1,450	500.00	725,000	109,749	402.00	44,138,618
1984	1,475	500.00	737,500	113,700	396.00	44,975,575
1983	1,500	540.00	810,000	115,001	406.00	46,708,350
1982	1,450	580.00	841,000	115,444	415.00	47,905,367
All hogs (including pigs)[a]						
1986	1,190	69.00	82,110	52,298	69.60	3,639,348
1985	1,310	82.50	108,075	54,073	75.00	4,055,724
1984	1,250	62.50	78,125	56,694	58.80	3,330,803
1983	900	87.50	78,750	54,534	89.90	4,903,494
1982	690	73.00	50,370	58,698	70.10	4,114,350
All sheep and lambs						
1986	108	74.00	7,992	9,932	67.40	669,883
1985	110	68.50	7,535	10,443	61.10	637,873
1984	110	63.00	6,930	11,487	52.10	598,904
1983	110	58.50	6,435	12,140	51.80	628,599
1982	125	63.50	7,938	12,997	57.10	742,139
All chickens[a]						
1986	8,900	1.45	12,905	368,248	1.90	699,715
1985	9,000	1.60	14,400	374,008	2.02	754,312
1984	7,750	1.60	12,400	364,880	1.96	716,700
1983	8,100	1.45	11,745	379,219	1.85	702,556
1982	8,100	1.50	12,150	385,338	1.89	728,460
Total value - all species						
1986[b]	--	--	772,757	--	--	46,289,149
1985	--	--	855,656	--	--	49,638,771
1984	--	--	835,525	--	--	49,677,482
1983	--	--	907,560	--	--	52,993,052
1982	--	--	912,058	--	--	53,544,278

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI, 1986).

a. 1 December of previous year.
b. Excludes turkey breeder hens.

TABLE XII-16. QUANTITY OF LIVESTOCK AND POULTRY ON MICHIGAN FARMS, BY CLASS: 1 JANUARY 1982-1986

(In 1,000 head)

Species and class	1982	1983	1984	1985	1986
Cattle and calves					
Classification by sex and weight					
Cows and heifers that have calved	590	595	560	550	550
Beef cows	194	195	158	160	153
Milk cows	396	400	402	390	397
Heifers, 500 pounds and over	269	290	282	274	260
For beef cow replacement	40	52	36	32	23
For milk cow replacement	184	186	180	195	192
Other heifers	45	52	66	47	45
Steers, 500 pounds plus	195	193	230	210	215
Bulls, 500 pounds plus	20	24	23	22	20
Calves, less than 500 pounds	376	398	380	394	365
All cattle and calves	1,450	1,500	1,475	1,450	1,410
Hogs[a]					
All hogs	690	900	1,250	1,310	1,190
Breeding hogs	105	150	170	155	145
Market hogs	585	750	1,080	1,155	1,045
Sheep and lambs					
Ewe lambs	16	13	13	12	11
Wether and ram lambs	4	3	4	3	4
Ewes, 1 year plus	78	76	72	73	71
Rams and wethers, 1 year plus	3	3	3	4	3
Sheep and lambs on feed	24	15	18	18	19
All sheep and lambs	125	110	110	110	108
Chickens[a]					
Pullets of laying age	3,800	3,730	3,670	4,050	4,200
Hens	2,500	2,570	2,530	2,650	2,900
Pullets, 3 months plus	820	850	725	1,300	1,000
Pullets, less than 3 months	940	900	775	950	760
Other chickens	40	50	50	50	40
All chickens	8,100	8,100	7,750	9,000	8,900

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, MI: 1986).

[a] 1 December inventory of previous year.

TABLE XII-15. RANKING OF MICHIGAN COUNTIES ACCORDING TO LABOR AND PROPRIETORS' EARNINGS IN AGRICULTURE AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percenta	
County	1974	1984	County	1974	1984
Missaukee	28.77	20.13	Ottawa	3.26	2.43
Leelanau	29.97	16.67	Ontonagon	0.18	2.40
Oceana	33.22	12.45	Chippewa	1.46	2.32
Sanilac	30.99	12.03	Alger	1.54	2.30
Cass	10.58	11.89	Alpena	1.37	2.21
Clinton	23.95	11.23	Charlevoix	2.82	2.07
Huron	35.54	11.10	Baraga	0.91	2.07
Barry	8.35	10.57	Delta	2.69	1.67
Hillsdale	9.85	9.93	Kalkaska	1.07	1.62
Arenac	21.83	8.81	Iron	2.79	1.59
Tuscola	27.71	8.41	Calhoun	1.35	1.55
Alcona	4.85	8.29	St. Clair	2.48	1.54
Branch	6.45	8.16	Iosco	1.07	1.49
Ionia	14.62	8.13	Emmet	1.71	1.34
Newaygo	11.97	8.11	Cheboygan	2.21	1.31
St. Joseph	3.76	7.85	Wexford	2.10	1.21
Allegan	11.27	7.82	Grand Traverse	4.42	1.20
Gratiot	20.09	6.98	Otsego	2.13	1.16
Van Buren	10.91	6.93	Jackson	0.81	1.15
Eaton	9.40	6.42	Bay	6.29	0.95
Osceola	7.78	5.66	Saginaw	4.06	0.90
Ogemaw	11.46	5.41	Dickinson	1.73	0.80
Benzie	10.70	5.33	Schoolcraft	3.16	0.78
Gladwin	8.39	5.26	Kalamazoo	0.96	0.75
Shiawassee	8.42	5.20	Luce	0.92	0.69
Lenawee	5.07	5.04	Houghton	1.52	0.67
Lapeer	12.78	4.99	Gogebic	1.12	0.64
Montmorency	6.86	4.98	Midland	3.29	0.57
Menominee	7.43	4.81	Ingham	0.62	0.51
Oscoda	10.99	4.75	Muskegon	0.93	0.50
Lake	3.30	4.68	Washtenaw	0.73	0.48
Antrim	10.15	4.45	Kent	0.96	0.39
Livingston	4.23	4.30	Marquette	0.16	0.32
Clare	6.39	4.16	Macomb	0.38	0.22
Montcalm	11.61	4.06	Roscommon	0.95	0.22
Presque Isle	6.49	3.85	Genesee	0.40	0.16
Manistee	4.55	3.63	Oakland	0.09	0.10
Mason	7.99	3.56	Wayne	0.02	0.03
Isabella	11.79	3.31	Crawford	(NA)	(NA)
Monroe	3.71	3.02	Keweenaw	(NA)	(NA)
Mackinac	1.61	2.84			
Berrien	3.12	2.65	Michigan	1.73	0.96
Mecosta	11.21	2.56	United States	3.51	1.83

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

(NA) Keweenaw and Crawford counties have no earnings reported.

TABLE XII-16. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN AGRICULTURE: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Sanilac	-40	198	Gratiot	-45	49
Huron	-50	183	Clinton	1	48
Presque Isle	5	174	Clare	42	48
Arenac	-29	174	Cheboygan	18	48
Tuscola	-54	169	Newaygo	44	47
Genesee	-11	164	Ingham	103	45
Iosco	158	132	Ontonagon	933	45
Gladwin	32	130	Lapeer	-19	44
Kalkaska	486	129	Muskegon	0	43
Calhoun	103	127	Baraga	274	41
Missaukee	28	127	Delta	19	41
Jackson	138	121	Midland	-50	41
Mackinac	264	116	Luce	61	40
Ionia	11	112	St. Joseph	348	39
Bay	-74	103	Shiawassee	9	38
Isabella	-38	102	Livingston	178	37
Schoolcraft	-27	100	Lenawee	67	30
Eaton	44	95	Alger	180	30
Allegan	54	92	Antrim	-24	29
Oscoda	-32	90	Ottawa	109	29
Alcona	281	89	Houghton	-8	27
Lake	123	88	Dickinson	-10	26
Montcalm	-25	83	Iron	10	23
Roscommon	-48	83	Emmet	68	22
Barry	142	82	Kent	-4	21
Montmorency	13	80	Grand Traverse	-21	20
Alpena	192	73	Benzie	5	18
St. Clair	30	73	Oakland	179	17
Hillsdale	104	70	Monroe	63	16
Washtenaw	73	69	Marquette	292	15
Branch	139	68	Leelanau	-23	13
Gogebic	-16	65	Manistee	65	8
Mason	-17	63	Berrien	35	6
Otsego	54	62	Van Buren	9	6
Kalamazoo	80	61	Saginaw	-57	2
Osceola	39	61	Oceana	-38	-2
Charlevoix	51	60	Wayne	107	-4
Mecosta	-53	57	Macomb	20	-8
Menominee	41	57	Crawford	(NA)	(NA)
Cass	140	56	Keweenaw	(NA)	(NA)
Wexford	39	52			
Chippewa	96	51	Michigan	11	51
Ogemaw	3	49	United States	24	68

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

(NA) Keweenaw and Crawford counties have no earnings reported.

TABLE XII-17. MICHIGAN COUNTIES RANKED ACCORDING TO 1984 CASH RECEIPTS FROM TOTAL MARKETINGS: 1983 AND 1984

(Millions of dollars)

County	1983	1984	County	1983	1984
Huron	150	141	Mecosta	23	21
Ottawa	139	139	Mason	21	20
Allegan	128	128	Arenac	22	19
Lenawee	126	115	Osceola	20	19
Sanilac	124	114	Wayne	21	18
Tuscola	105	94	Antrim	16	15
Kent	92	87	Manistee	13	13
Saginaw	95	83	Clare	12	12
Gratiot	86	79	Ogemaw	12	11
Berrien	80	76	Delta	11	11
Cass	73	76	Alpena	11	11
Van Buren	79	75	Presque Isle	11	10
Ionia	75	71	Gladwin	10	9
Clinton	74	70	Chippewa	9	8
Monroe	79	69	Benzie	8	8
Hillsdale	71	67	Iosco	7	7
Ingham	71	66	Charlevoix	7	7
St. Joseph	71	66	Emmet	6	6
Lapeer	69	63	Wexford	6	5
Kalamazoo	63	60	Cheboygan	6	5
Washtenaw	65	60	Dickinson	5	5
Calhoun	64	60	Alcona	5	5
Branch	63	59	Houghton	4	4
Shiawassee	62	57	Mackinac	4	3
Montcalm	61	55	Marquette	3	3
Jackson	58	54	Montmorency	3	3
Bay	63	53	Ontonagon	3	3
Isabella	52	50	Otsego	3	3
Eaton	52	48	Kalkaska	3	3
St. Clair	47	44	Oscoda	3	3
Barry	43	40	Alger	3	3
Macomb	44	39	Iron	2	2
Oceana	41	39	Lake	2	2
Newaygo	41	38	Luce	1	1
Livingston	40	37	Baraga	1	1
Genesee	37	34	Gogebic	1	1
Leelanau	27	27	Schoolcraft	1	1
Oakland	29	27	Roscommon	0	0
Muskegon	28	26	Crawford	(NA)	(NA)
Grand Traverse	26	26	Keweenaw	(NA)	(NA)
Missaukee	24	24			
Menominee	23	23	Michigan	3,163	2,962
Midland	24	21	United States	144,303	149,482

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

TABLE XII-10. ACREAGE, PRODUCTION, AND VALUE OF MICHIGAN AGRICULTURAL PRODUCE FOR FRESH MARKET: 1981-1985

Crop and season	Year	Acres		Production		Price received (per cwt)	Value of production[a] ($1,000)
		Planted	Harvested	Per acre (cwt)	Total (1,000 cwt)		
Carrots	1981	7,000	5,600	235	1,316	9.43	12,408
	1982	7,500	6,700	255	1,709	7.53	12,868
	1983	7,400	7,200	230	1,656	11.20	18,600
	1984	7,600	7,500	270	2,025	10.10	20,361
	1985	7,400	6,400	260	1,664	9.76	16,248
Cauliflower	1981	1,400	1,200	62	74	38.60	2,854
	1982	1,600	1,500	58	87	29.50	2,569
	1983	1,600	1,400	55	77	35.30	2,717
	1984	1,600	1,500	65	98	35.10	3,441
	1985	1,700	1,500	65	98	33.90	3,324
Celery	1981	3,400	3,200	450	1,440	11.00	15,784
	1982	3,500	3,300	470	1,551	10.60	16,400
	1983	3,600	3,500	370	1,295	12.70	16,504
	1984	4,000	3,900	400	1,560	9.87	15,403
	1985	3,400	3,200	410	1,312	10.60	13,844
Strawberries	1981	2,800	2,700	65	176	47.10	8,296
	1982	2,800	2,700	80	216	53.10	11,476
	1983	2,800	2,700	60	162	51.90	8,412
	1984	2,800	2,700	70	189	37.40	7,076
	1985	2,600	2,500	65	163[b]	38.70	6,300
Corn, sweet	1981	12,500	12,000	61	732	9.84	7,203
	1982	13,300	13,000	66	858	8.81	7,559
	1983	13,300	12,800	70	896	11.10	9,946
	1984	13,300	12,300	65	800	10.80	8,640
	1985	13,300	12,000	65	780	12.40	9,672

TABLE XII-10. ACREAGE, PRODUCTION, AND VALUE OF MICHIGAN AGRICULTURAL PRODUCE FOR FRESH MARKET: 1981-1985 (cont.)

Crop and season	Year	Acres		Production		Price received (per cwt)	Value of production[a] ($1,000)
		Planted	Harvested	Per acre (cwt)	Total (1,000 cwt)		
Lettuce	1981	1,400	1,200	215	258	18.00	4,644
	1982	1,600	1,500	250	375	13.80	5,175
	1983	1,600	1,200	190	228	15.00	3,420
	1984	1,200	1,100	235	259	15.70	4,066
	1985	1,300	1,200	250	300	17.50	5,250
Onions[a]	1981	7,900	7,700	335	2,580	10.70	22,973
	1982	8,200	8,000	320	2,560	6.11	12,941
	1983	8,400	8,300	310	2,573	14.30	30,373
	1984	8,600	8,500	345	2,933	6.80	16,898
	1985	8,400	7,800	325	2,535	6.96	14,164
Tomatoes	1981	3,600	3,400	115	391	24.50	9,580
	1982	3,800	3,500	115	403	19.60	7,899
	1983	3,600	3,300	120	396	28.10	11,128
	1984	3,600	3,500	120	420	28.80	12,096
	1985	3,500	3,200	100	320	17.20	5,504

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1986).

a. For Onions-- value of sales.
b. Total production excludes 23,000 cwt. not harvested because of economic conditions.

TABLE XII-11. NUMBER OF TREES OF BEARING AGE, ACREAGE IN, AND PRODUCTION OF FRUIT CROPS IN MICHIGAN: 1981-1985

		Trees of bearing age		Production (million pounds)		Price received (dollars per cwt.)	Value of production ($1,000)
Fruit	Year	Number (1,000)	Acres (1,000)	Total	Utilized		
Apples	1981	3,300	44.0	660	660	9.10	59,760
	1982	3,500	44.5	980	980	6.90	68,000
	1983	3,700	46.5	750	750	7.70	57,540
	1984	3,900	48.0	770	770	8.00	61,960
	1985	4,100	50.0	1,100	1,100	6.80	75,000
Cherries, tart	1981	2,650	27.8	88	88	46.40	40,788
	1982	2,600	27.0	260	195	13.70	26,805
	1983	2,850	29.7	87	87	49.10	42,721
	1984[a]	3,200	33.3	210	195	25.40	49,555
	1985[a]	3,250	33.3	220	215	24.40	52,395
Cherries, sweet	1981	675	8.1	46	46	18.75	8,635
	1982	625	7.5	62	51	19.90	10,160
	1983	625	7.5	36	36	23.00	8,272
	1984	625	7.5	66	62	21.15	13,120
	1985	625	7.5	62	62	25.00	15,500
Peaches	1981	425	4.1	35	35	19.20	6,734
	1982	400	3.8	50	50	20.90	10,459
	1983	475	4.5	35	35	21.50	7,526
	1984	525	4.9	45	45	17.10	7,700
	1985	600	5.6	55	55	20.90	11,515

TABLE XII-11. NUMBER OF TREES OF BEARING AGE, ACREAGE IN, AND PRODUCTION OF FRUIT CROPS IN MICHIGAN: 1981-1985 (cont.)

Fruit	Year	Trees of bearing age Number (1,000)	Acres (1,000)	Production (tons) Total	Utilized	Price received (dollars per cwt.)	Value of production ($1,000)
Grapes	1981	6,100	12.7	53,000	53,000	252	13,370
	1982	5,900	12.5	58,500	58,500	201	11,758
	1983	5,900	12.5	60,000	60,000	194	11,662
	1984	5,800	12.4	49,000	49,000	166	8,131
	1985	5,600	12.0	51,000	51,000	164	8,378
Pears	1981	200	2.1	9,000	9,000	224	2,016
	1982	180	1.9	12,000	11,000	220	2,418
	1983	165	1.7	8,000	8,000	237	1,899
	1984	150	1.6	11,000	11,000	219	2,404
	1985	140	1.5	8,000	8,000	242	1,933
Prunes & Plums	1981	300	3.1	16,000	16,000	140	2,237
	1982	275	2.8	10,000	10,000	256	2,565
	1983	275	2.8	12,000	12,000	197	2,366
	1984	275	2.8	12,000	12,000	276	3,310
	1985	275	2.8	11,000	11,000	299	3,285

SOURCE: Michigan Department of Agriculture, Michigan Agricultural Statistics (Lansing, 1986).

a. Production defined as "production available for harvest."

TABLE XII-18. MICHIGAN COUNTIES RANKED ACCORDING TO 1984 CASH RECEIPTS FROM CROPS MARKETINGS: 1983 AND 1984

(Millions of dollars)

County	1983	1984	County	1983	1984
Lenawee	83	69	Mason	12	11
Saginaw	78	65	Arenac	13	11
Tuscola	76	64	Antrim	9	9
Berrien	65	59	Mecosta	10	9
Ottawa	65	58	Benzie	6	6
Huron	67	56	Presque Isle	5	5
Monroe	66	56	Menominee	5	5
Van Buren	59	53	Delta	5	4
Bay	58	49	Gladwin	4	4
Kent	51	45	Missaukee	4	3
Allegan	50	44	Osceola	3	3
Gratiot	52	44	Alpena	3	3
Sanilac	49	41	Charlevoix	3	2
St. Joseph	45	38	Dickinson	3	2
Montcalm	40	34	Ogemaw	3	2
Ingham	37	32	Chippewa	2	2
Kalamazoo	36	31	Emmet	2	2
Lapeer	36	30	Iosco	2	2
Oceana	32	30	Clare	2	2
Macomb	33	29	Marquette	2	2
Washtenaw	33	28	Cheboygan	2	2
Eaton	33	28	Wexford	2	1
Branch	33	28	Kalkaska	2	1
Ionia	32	27	Houghton	1	1
Calhoun	32	27	Otsego	1	1
Hillsdale	31	26	Alcona	1	1
Shiawassee	30	25	Iron	1	1
Clinton	29	25	Ontonagon	1	1
Cass	26	22	Montmorency	1	1
Leelanau	22	22	Luce	1	1
Grand Traverse	22	23	Alger	1	1
Jackson	25	21	Mackinac	0	0
Oakland	23	20	Lake	0	0
St. Clair	24	20	Schoolcraft	0	0
Genesee	21	18	Oscoda	0	0
Newaygo	21	18	Baraga	0	0
Wayne	19	17	Roscommon	0	0
Livingston	18	16	Gogebic	0	0
Midland	17	15	Crawford	(NA)	(NA)
Muskegon	16	14	Keweenaw	(NA)	(NA)
Barry	16	14			
Isabella	16	14	Michigan	1,745	1,507
Manistee	12	12	United States	67,633	69,343

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

TABLE XII-19. MICHIGAN COUNTIES RANKED ACCORDING TO 1984 CASH RECEIPTS FROM LIVESTOCK AND LIVESTOCK PRODUCTS MARKETINGS: 1983 AND 1984

(Millions of dollars)

County	1983	1984	County	1983	1984
Huron	83	84	Arenac	9	9
Allegan	78	84	Alpena	8	8
Ottawa	74	81	Delta	7	7
Sanilac	75	73	Midland	7	7
Cass	46	53	Antrim	6	7
Lenawee	44	45	Oakland	6	7
Clinton	45	45	Chippewa	6	6
Ionia	43	44	Presque Isle	6	6
Kent	41	41	Gladwin	5	5
Hillsdale	40	41	Leelanau	5	5
Isabella	36	36	Iosco	5	5
Gratiot	34	35	Bay	5	5
Ingham	34	35	Charlevoix	5	5
Jackson	33	33	Wexford	4	4
Lapeer	33	33	Grand Traverse	4	4
Calhoun	32	33	Cheboygan	4	4
Washtenaw	31	32	Emmet	4	4
Shiawassee	32	31	Alcona	4	4
Branch	30	31	Mackinac	3	3
Tuscola	29	31	Dickinson	3	3
Kalamazoo	27	29	Houghton	3	3
St. Joseph	26	28	Montmorency	3	2
Barry	26	26	Oscoda	2	2
St. Clair	24	24	Alger	2	2
Montcalm	22	21	Ontonagon	2	2
Van Buren	20	21	Benzie	2	2
Livingston	22	21	Otsego	2	2
Newaygo	21	21	Marquette	2	2
Missaukee	21	20	Wayne	1	1
Eaton	19	19	Kalkaska	1	1
Menominee	18	18	Manistee	1	1
Saginaw	17	18	Lake	1	1
Berrien	15	17	Baraga	1	1
Osceola	17	17	Gogebic	1	1
Genesee	16	16	Iron	1	1
Monroe	13	14	Luce	1	1
Mecosta	13	13	Schoolcraft	1	1
Muskegon	12	12	Roscommon	0	0
Macomb	11	11	Crawford	(NA)	(NA)
Clare	10	10	Keweenaw	(NA)	(NA)
Ogemaw	9	9			
Mason	9	9	Michigan	1,419	1,455
Oceana	9	9	United States	76,670	80,138

SOURCE: Bureau of Economic Analysis, Regional Economic Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

TABLE XII-20. FARM PRODUCTION EXPENSES: LAKE STATES (MICHIGAN, MINNESOTA, WISCONSIN), 1982

Item[a]	Total expenditures[b] ($1,000)	Percentage of farms reporting[c]	Average per farm[c]
Current farm operating expenses[d]:			
Farms services	1,989,782	99.5	7,653
Feed	1,679,436	77.5	6,459
Seeds, plants, fertilizer and chemicals	1,866,618	86.1	7,179
Interest and taxes	2,356,355	90.0	9,063
Livestock and poultry	1,126,879	65.3	4,334
Wages and contract labor	984,264	59.8	3,786
Fuels and energy	1,151,849	99.2	4,430
Autos, trucks, tractors and machinery	1,312,396	68.7	5,047
Farm and motor supplies	961,877	98.1	3,700
Building and fencing	750,192	72.3	2,885

SOURCE: Michigan Department of Commerce, Michigan Agricultural Statistics (Lansing, MI: 1984).

a. Farm share.
b. Totals may not add due to rounding.
c. Expanded number of farms reporting or total expenditure divided by expanded number of sample farms within each economic class.
d. Landlord expenditures for real estate interest and taxes are included.

TABLE XII-21. RANKING OF MICHIGAN COUNTIES ACCORDING TO LABOR AND PROPRIETORS' EARNINGS IN AGRICULTURE AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percentage	
County	1974	1984	County	1974	1984
Missaukee	28.77	20.13	Ottawa	3.24	2.43
Leelanau	29.97	16.67	Ontonagon	0.18	2.40
Oceana	33.22	12.45	Chippewa	1.46	2.32
Sanilac	30.99	12.03	Alger	1.54	2.30
Cass	10.58	11.89	Alpena	1.37	2.21
Clinton	23.95	11.23	Charlevoix	2.82	2.07
Huron	35.54	11.10	Baraga	0.91	2.07
Barry	8.35	10.57	Delta	2.69	1.67
Hillsdale	9.85	9.93	Kalkaska	1.07	1.62
Arenac	21.83	8.81	Iron	2.79	1.59
Tuscola	27.71	8.41	Calhoun	1.35	1.55
Alcona	4.85	8.29	St. Clair	2.48	1.54
Branch	6.45	8.16	Iosco	1.07	1.49
Ionia	14.62	8.13	Emmet	1.71	1.34
Newaygo	11.97	8.11	Cheboygan	2.21	1.31
St. Joseph	3.76	7.85	Wexford	2.10	1.21
Allegan	11.27	7.82	Grand Traverse	4.42	1.20
Gratiot	20.09	6.98	Otsego	2.13	1.16
Van Buren	10.91	6.92	Jackson	0.81	1.15
Eaton	9.40	6.42	Bay	6.29	0.95
Osceola	7.78	5.66	Saginaw	4.06	0.90
Ogemaw	11.46	5.41	Dickinson	1.73	0.80
Benzie	10.70	5.33	Schoolcraft	2.16	0.78
Gladwin	8.39	5.26	Kalamazoo	0.96	0.75
Shiawassee	8.42	5.20	Luce	0.92	0.69
Lenawee	5.07	5.04	Houghton	1.52	0.67
Lapeer	12.78	4.99	Gogebic	1.12	0.64
Montmorency	6.86	4.98	Midland	2.29	0.57
Menominee	7.43	4.81	Ingham	0.62	0.51
Oscoda	10.99	4.75	Muskegon	0.93	0.50
Lake	3.30	4.68	Washtenaw	0.73	0.48
Antrim	10.15	4.45	Kent	0.96	0.39
Livingston	4.23	4.30	Marquette	0.16	0.32
Clare	6.39	4.16	Macomb	0.38	0.22
Montcalm	11.61	4.06	Roscommon	0.95	0.22
Presque Isle	6.49	3.85	Genesee	0.40	0.16
Manistee	4.55	3.63	Oakland	0.09	0.10
Mason	7.99	3.56	Wayne	0.02	0.03
Isabella	11.79	3.31	Crawford	0.00	0.00
Monroe	3.71	3.02	Keweenaw	0.00	0.00
Mackinac	1.61	2.84			
Berrien	3.12	2.65	Michigan	1.73	0.96
Mecosta	11.21	2.56	United States	3.51	1.83

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE XII-22. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN AGRICULTURE: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Sanilac	-40	198	Gratiot	-45	49
Huron	-50	183	Clinton	1	48
Presque Isle	5	174	Clare	42	48
Arenac	-29	174	Cheboygan	18	48
Tuscola	-54	169	Newaygo	44	47
Genesee	-11	164	Ingham	103	45
Iosco	158	132	Ontonagon	933	45
Gladwin	32	130	Lapeer	-19	44
Kalkaska	486	129	Muskegon	0	43
Calhoun	103	127	Baraga	274	41
Missaukee	28	127	Delta	19	41
Jackson	138	121	Midland	-50	41
Mackinac	264	116	Luce	61	40
Ionia	11	112	St. Joseph	348	39
Bay	-74	103	Shiawassee	9	38
Isabella	-38	102	Livingston	178	37
Schoolcraft	-27	100	Lenawee	67	30
Eaton	44	95	Alger	180	30
Allegan	54	92	Antrim	-24	29
Oscoda	-32	90	Ottawa	109	29
Alcona	281	89	Houghton	-8	27
Lake	123	88	Dickinson	-10	26
Montcalm	-25	83	Iron	10	23
Roscommon	-48	83	Emmet	68	22
Barry	142	82	Kent	-4	21
Montmorency	13	80	Grand Traverse	-21	20
Alpena	192	73	Benzie	5	18
St. Clair	30	73	Oakland	179	17
Hillsdale	104	70	Monroe	63	16
Washtenaw	73	69	Marquette	292	15
Branch	139	68	Leelanau	-23	13
Gogebic	-16	65	Manistee	65	8
Mason	-17	63	Berrien	35	6
Otsego	54	62	Van Buren	9	6
Kalamazoo	80	61	Saginaw	-57	2
Osceola	39	61	Oceana	-38	-2
Charlevoix	51	60	Wayne	107	-4
Mecosta	-53	57	Macomb	20	-8
Menominee	41	57	Crawford	(NA)	(NA)
Cass	140	56	Keweenaw	(NA)	(NA)
Wexford	39	52			
Chippewa	96	51	Michigan	11	51
Ogemaw	3	49	United States	24	68

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(NA) Keweenaw and Crawford counties have no earnings reported.

TABLE XII-23. MICHIGAN COUNTIES RANKED ACCORDING TO 1984 CASH RECEIPTS FROM TOTAL MARKETINGS: 1983 AND 1984

(Millions of dollars)

County	1983	1984	County	1983	1984
Huron	150	141	Mecosta	23	21
Ottawa	139	139	Mason	21	20
Allegan	128	128	Arenac	22	19
Lenawee	126	115	Osceola	20	19
Sanilac	124	114	Wayne	21	18
Tuscola	105	94	Antrim	16	15
Kent	92	87	Manistee	13	13
Saginaw	95	83	Clare	12	12
Gratiot	86	79	Ogemaw	12	11
Berrien	80	76	Delta	11	11
Cass	72	76	Alpena	11	11
Van Buren	79	75	Presque Isle	11	10
Ionia	75	71	Gladwin	10	9
Clinton	74	70	Chippewa	9	8
Monroe	79	69	Benzie	8	8
Hillsdale	71	67	Iosco	7	7
Ingham	71	66	Charlevoix	7	7
St. Joseph	71	66	Emmet	6	6
Lapeer	69	63	Wexford	6	5
Kalamazoo	63	60	Cheboygan	6	5
Washtenaw	65	60	Dickinson	5	5
Calhoun	64	60	Alcona	5	5
Branch	63	59	Houghton	4	4
Shiawassee	62	57	Mackinac	4	3
Montcalm	61	55	Marquette	3	3
Jackson	58	54	Montmorency	3	3
Bay	63	53	Ontonagon	3	3
Isabella	52	50	Otsego	3	3
Eaton	52	48	Kalkaska	3	3
St. Clair	47	44	Oscoda	3	3
Barry	43	40	Alger	3	3
Macomb	44	39	Iron	2	2
Oceana	41	39	Lake	2	2
Newaygo	41	38	Luce	1	1
Livingston	40	37	Baraga	1	1
Genesee	37	34	Gogebic	1	1
Leelanau	27	27	Schoolcraft	1	1
Oakland	29	27	Roscommon	0	0
Muskegon	28	26	Crawford	(NA)	(NA)
Grand Traverse	26	26	Keweenaw	(NA)	(NA)
Missaukee	24	24			
Menominee	23	23	Michigan	3,163	2,962
Midland	24	21	United States	144,303	149,482

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

TABLE XII-24. MICHIGAN COUNTIES RANKED ACCORDING TO 1984 CASH RECEIPTS FROM CROPS MARKETINGS: 1983 AND 1984

(Millions of dollars)

County	1983	1984	County	1983	1984
Lenawee	83	69	Mason	12	11
Saginaw	78	65	Arenac	13	11
Tuscola	76	64	Antrim	9	9
Berrien	65	59	Mecosta	10	9
Ottawa	65	58	Benzie	6	6
Huron	67	56	Presque Isle	5	5
Monroe	66	56	Menominee	5	5
Van Buren	59	53	Delta	5	4
Bay	58	49	Gladwin	4	4
Kent	51	45	Missaukee	4	3
Allegan	50	44	Osceola	3	3
Gratiot	52	44	Alpena	3	3
Sanilac	49	41	Charlevoix	3	2
St. Joseph	45	38	Dickinson	3	2
Montcalm	40	34	Ogemaw	3	2
Ingham	37	32	Chippewa	2	2
Kalamazoo	36	31	Emmet	2	2
Lapeer	36	30	Iosco	2	2
Oceana	32	30	Clare	2	2
Macomb	33	29	Marquette	2	2
Washtenaw	33	28	Cheboygan	2	2
Eaton	33	28	Wexford	2	1
Branch	33	28	Kalkaska	2	1
Ionia	32	27	Houghton	1	1
Calhoun	32	27	Otsego	1	1
Hillsdale	31	26	Alcona	1	1
Shiawassee	30	25	Iron	1	1
Clinton	29	25	Ontonagon	1	1
Cass	26	22	Montmorency	1	1
Leelanau	22	22	Luce	1	1
Grand Traverse	22	22	Alger	1	1
Jackson	25	21	Mackinac	0	0
Oakland	23	20	Lake	0	0
St. Clair	24	20	Schoolcraft	0	0
Genesee	21	18	Oscoda	0	0
Newaygo	21	18	Baraga	0	0
Wayne	19	17	Roscommon	0	0
Livingston	18	16	Gogebic	0	0
Midland	17	15	Crawford	(NA)	(NA)
Muskegon	16	14	Keweenaw	(NA)	(NA)
Barry	16	14			
Isabella	16	14	Michigan	1,745	1,507
Manistee	12	12	United States	67,633	69,343

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

TABLE XII-25. MICHIGAN COUNTIES RANKED ACCORDING TO 1984 CASH RECEIPTS FROM LIVESTOCK AND LIVESTOCK PRODUCTS MARKETINGS: 1983 AND 1984

(Millions of dollars)

County	1983	1984	County	1983	1984
Huron	83	84	Arenac	9	9
Allegan	78	84	Alpena	8	8
Ottawa	74	81	Delta	7	7
Sanilac	75	73	Midland	7	7
Cass	46	53	Antrim	6	7
Lenawee	44	45	Oakland	6	7
Clinton	45	45	Chippewa	6	6
Ionia	43	44	Presque Isle	6	6
Kent	41	41	Gladwin	5	5
Hillsdale	40	41	Leelanau	5	5
Isabella	36	36	Iosco	5	5
Gratiot	34	35	Bay	5	5
Ingham	34	35	Charlevoix	5	5
Jackson	33	33	Wexford	4	4
Lapeer	33	33	Grand Traverse	4	4
Calhoun	32	33	Cheboygan	4	4
Washtenaw	31	32	Emmet	4	4
Shiawassee	32	31	Alcona	4	4
Branch	30	31	Mackinac	3	3
Tuscola	29	31	Dickinson	3	3
Kalamazoo	27	29	Houghton	3	3
St. Joseph	26	28	Montmorency	3	2
Barry	26	26	Oscoda	2	2
St. Clair	24	24	Alger	2	2
Montcalm	22	21	Ontonagon	2	2
Van Buren	20	21	Benzie	2	2
Livingston	22	21	Otsego	2	2
Newaygo	21	21	Marquette	2	2
Missaukee	21	20	Wayne	1	1
Eaton	19	19	Kalkaska	1	1
Menominee	18	18	Manistee	1	1
Saginaw	17	18	Lake	1	1
Berrien	15	17	Baraga	1	1
Osceola	17	17	Gogebic	1	1
Genesee	16	16	Iron	1	1
Monroe	13	14	Luce	1	1
Mecosta	13	13	Schoolcraft	1	1
Muskegon	12	12	Roscommon	0	0
Macomb	11	11	Crawford	(NA)	(NA)
Clare	10	10	Keweenaw	(NA)	(NA)
Ogemaw	9	9			
Mason	9	9	Michigan	1,419	1,455
Oceana	9	9	United States	76,670	80,138

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(NA) Keweenaw and Crawford counties have no cash receipts reported.

XIII. MINING

Each establishment is classified on the basis of its major economic activity. Those primarily engaged in mining are tabulated in the Census of Mineral Industries, where they are further classified on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development is in progress. Mineral processing, not in conjunction with extraction, is classified in manufacturing. A major difference between census statistics and those published by the U.S. Bureau of Mines and the Geological Survey Division of the Michigan Department of Natural Resources is the exclusion of cement manufacturing in the former and its inclusion in the latter. Another difference stems from the treatment of government-owned operations, such as gravel pits mined by county road crews. Census statistics would exclude those establishments whereas the Bureau of Mines and the Geological Survey Division would not. For the most part, the Geological Survey Division and the Bureau of Mines are interested in reporting mineral production, irrespective of mine ownership. Census statistics focus on the economic nature of establishments.

Companies with operations at more than one location must report separately for each establishment; all resulting tabulations are initially based on these reports. Establishments not engaged in mineral extraction are classified in another industry. For example, the Michigan oil wells of an integrated petroleum company would be reported as a mineral establishments, but the refinery would be a manufacturing establishment, and company-operated retail or wholesale trade. A mining establishment generally represents a unit operation even though there may be several pits, shafts, or wells. The operations of natural gas plants are included in mining inasmuch as these engage in separating hydrocarbons for use or further processing elsewhere. Establishments without paid employees and with shipments or expenditures totaling less than $500 were included.

The Bureau of Mines, U.S. Department of Interior, annually publishes Mineral Yearbook. A chapter entitled "The Mineral Industry of Michigan" is prepared in cooperation with the Geological Survey Division, Michigan Department of Natural Resources. The Geological Survey Division issues occasional releases dealing with Michigan's mineral industries. It also published Michigan's Oil and Gas Fields and a directory, Michigan Mineral Producers.

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TABLE XIII-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES MINING ESTABLISHMENTS: 1970-1985

	Michigan				United States			
	Employment	Weekly		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings	(000)	Hours	Earnings	earnings
1970	11.8	n.a.	n.a.	n.a.	623	42.7	164.40	3.85
1971	11.1	n.a.	n.a.	n.a.	609	42.4	172.14	4.06
1972	12.0	n.a.	n.a.	n.a.	628	42.6	189.14	4.44
1973	12.9	n.a.	n.a.	n.a.	642	42.4	201.40	4.75
1974	13.4	43.8	236.17	5.39	697	41.9	219.14	5.23
1975	13.8	42.6	258.69	6.07	752	41.9	249.31	5.95
1976	13.2	42.9	276.30	6.43	779	42.4	273.90	6.46
1977	12.1	43.1	296.53	6.88	813	43.4	301.20	6.94
1978	13.3	43.5	340.20	7.82	851	43.4	332.88	7.67
1979	13.2	43.1	372.17	8.64	958	43.0	365.07	8.49
1980	12.5	42.3	399.39	9.44	1,027	43.3	397.06	9.17
1981	12.9	42.8	432.18	10.09	1,139	43.7	438.75	10.04
1982	10.4	42.6	467.46	10.97	1,128	42.7	459.88	10.77
1983	9.0	43.1	475.44	11.03	952	42.5	479.40	11.28
1984	10.0	42.7	480.37	11.25	966	43.3	503.58	11.63
1985	10.0	43.5	505.90	11.63	930	43.4	519.93	11.98

SOURCE: Michigan Employment Security Commission, special release; and Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: monthly), March 1985, Tables B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June, 1985).

n.a.: Data not available.

TABLE XIII-3. VALUE OF MICHIGAN FUEL AND METALLIC AND NONMETALLIC MINERAL PRODUCTION: 1951-1985

(In thousands of dollars)

Year	Fuel	Metallic	Nonmetallic[a]	Total
1951	40,279	90,279	127,052	257,530
1952	38,093	94,763	134,234	267,089
1953	37,333	105,236	145,125	287,693
1954	35,667	82,525	168,375	286,550
1955	33,623	145,380	192,354	371,357
1956	32,538	157,219	216,806	406,563
1957	31,785	144,235	230,790	406,810
1958	29,701	102,119	217,703	349,523
1959	33,719	97,363	254,240	385,322
1960	50,629	134,098	250,402	435,130
1961	62,144	125,956	255,164	443,263
1962	58,127	124,431	255,131	437,689
1963	58,099	155,277	272,208	485,583
1964	55,656	188,979	300,377	545,011
1965	54,685	204,241	30,875	526,801
1966	54,606	211,355	323,628	589,589
1967	53,371	207,975	334,104	595,449
1968	56,600	213,930	347,476	612,826
1969	55,580	248,945	354,904	659,445
1970	51,326	249,332	383,460	684,118
1971	49,292	226,325	380,166	655,783
1972	57,847	233,331	407,333	698,511
1973	80,194	276,526	460,230	816,950
1974	190,134	369,225	497,942	1,057,301
1975	327,456	425,201	492,617	1,245,274
1976	435,234	487,172	584,237	1,506,643
1977	506,965	414,390	640,506	1,561,861
1978	594,802	609,908	753,101	1,957,811
1979	884,768	676,876	770,562	2,332,206
1980	1,101,463	735,937	832,471	2,669,871
1981	1,429,372	767,040	732,372	2,928,784
1982	1,496,871	348,926	629,310	2,475,107
1983	1,356,763	507,747	652,944	2,517,454
1984[p]	1,350,000	620,098	725,098	2,695,196
1985[p]	n.a.	590,547	748,070	n.a.

SOURCE: Michigan Department of Natural Resources, special release; and United States Department of Interior, Bureau of Mines, special release.

a. Includes cement, classified in manufacturing by the U.S. Bureau of the Census.

p: Preliminary.

n.a.: Data not available.

TABLE XIII-5. NUMBER OF ACTIVE MINES, SHIPMENTS, AND AVERAGE NUMBER OF MEN EMPLOYED IN IRON ORE MINING IN MICHIGAN: 1958-1985

Year	Number of active mines	Shipments by range (thousands of long tons) Marquette	Menominee	Gogebic	Employment
1958	32	3,722	3,095	1,394	4,912
1959	27	3,530	2,478	1,251	4,163
1960	27	4,945	4,121	1,890	4,723
1961	24	4,183	3,886	1,362	3,466
1962	21	4,500	3,462	1,480	2,857
1963	19	5,850	4,304	813	3,586
1964	16	7,945	4,624	1,403	3,912
1965	16	8,925	4,361	773	3,775
1966	15	9,660	4,328	364	3,690
1967	12	10,165	3,630	239[a]	3,430
1968	11	9,367	3,449	0	3,090
1969	11	11,163	3,390	0	3,061
1970	7	10,336	2,925	0	2,798
1971	7	9,331	2,834	0	2,425
1972	6	9,251	2,577	0	2,226
1973	6	9,941	2,374	0	2,322
1974	6	9,009	2,522	0	2,548
1975	6	12,143	2,235	0	2,949
1976	6	13,362	2,326	0	3,075
1977	6	9,683	2,332	0	3,344
1978	6	15,934	2,252[b]	0	3,294
1979	5	14,993[c]	2,358	0	3,083
1980	4	15,734	1,866	0	2,822
1981	4	15,364	182	0	2,153
1982	2	7,007[d]	100[d]	0	1,766
1983	2	10,148	0	0	1,433
1984	2	13,053	0	0	1,745
1985	2	12,413	0	0	1,648

SOURCE: Michigan Department of Natural Resources, Geological Survey Division, special release.

a. Peterson mine permanently closed January 1967. Stockpile shipments completed in 1967.

b. Sherwood mine closed July 1978, shipments continued through 1979.

c. Mather mine closed July 1979, shipments continued through 1979.

d. Republic and Groveland mines closed in 1982. Only the Empire and Tilden mines now operating.

TABLE XIII-6. PRODUCTION AND SHIPMENTS OF PORTLAND AND MASONRY CEMENT FROM MICHIGAN MILLS: 1958-1985

Year	Number of plants	Production (barrels)	Shipment (barrels)	Value of shipments
1958	8	19,841,000	20,911,990	70,432,501
1959	8	21,561,000	23,025,928	77,323,974
1960	9	20,971,000	22,351,498	77,694,087
1961	9	21,661,000	23,462,554	79,638,973
1962	9	23,070,000	24,198,903	77,601,954
1963	9	24,194,000	26,694,665	81,446,667
1964	9	26,802,000	28,133,856	89,270,172
1965	8	27,018,000	29,135,052	92,369,052
1966	8	28,848,000	29,683,903	92,634,187
1967	9	31,350,682	31,131,016	90,810,328
1968	9	32,779,308	32,868,574	104,684,405
1969	9	31,982,736	31,790,616	103,897,422
1970	9	31,982,091	32,318,659	110,513,273
1971	9	33,723,094	33,750,455	109,833,119
1972	9	32,717,784	32,719,919	117,368,094
1973	9	33,781,604	34,515,369	129,627,462
1974	8	n.a.	32,552,275	146,822,510
1975	8	n.a.	25,581,964	138,356,710
1976	8	28,358,195	27,388,260	153,751,000
1977	8	5,815,974[a]	5,796,698[a]	175,458,343
1978	7	6,210,009[a]	6,189,337[a]	225,402,230
1979	7	6,053,375[a]	5,944,109[a]	268,502,624
1980	7	4,972,330[a]	4,856,465[a]	238,977,675
1981	6	4,112,381[a]	4,044,292[a]	191,224,916
1982	6	3,433,127[a]	3,389,819[a]	158,285,026
1983	n.a.	n.a.	4,085,000[a]	195,080,000
1984	n.a.	n.a.	4,500,000[a]	206,940,000
1985	n.a.	n.a.	4,726,000[a]	211,907,000

SOURCE: Michigan Department of Natural Resources, special release.

NOTE: one barrel= 376 pounds or 0.188 short tons.

a. Short tons.
p: Preliminary.

n.a.: Data not available.

TABLE XIII-7. COPPER PRODUCTION IN MICHIGAN, BY COUNTY: 1958-1985

(In pounds)

Year	Houghton	Keweenaw	Ontonagon	Total
1958	16,345,030	23,886,930	81,827,063	122,059,023
1959	20,689,233	22,730,365	69,661,935	113,081,533
1960	21,704,276	18,592,215	75,142,046	115,438,537
1961	20,175,410	18,337,000	103,756,178	142,268,588
1962	24,072,160	13,075,067	106,613,451	143,760,678
1963	22,879,603	13,000,730	113,900,191	149,780,524
1964	19,818,237	9,507,806	108,458,751	137,784,794
1965	15,759,103	6,414,944	123,743,392	145,917,439
1966	17,433,796	8,128,529	121,181,717	146,744,040
1967	16,695,626	7,763,357	92,731,257	117,190,240
1968	6,592,118	4,696,188	137,092,516	148,380,322
1969	0	0	149,952,283	149,952,283
1970	0	0	135,086,800	135,086,800
1971	0	0	112,155,147	112,155,147
1972	0	0	131,937,378	131,937,378
1973	0	0	151,678,939	151,678,939
1974	0	0	131,037,602	131,037,602
1975	1,455,657	0	140,819,850	142,275,507
1976	3,886,218	0	83,044,081	86,930,299
1977	0	0	85,960,551	85,960,551
1978	0	0	78,301,136	78,301,136
1979	0	0	87,469,886	87,469,886
1980	0	0	71,540,437	71,540,437
1981	0	0	86,723,895	86,723,895
1982	0	0	45,202,832	45,202,832
1983	0	0	2,111,876	2,111,876
1984	0	0	0	0
1985	0	0	0	0

SOURCE: Michigan Department of Natural Resources, special release, and special release from private sources.

TABLE XIII-8. MICHIGAN CRUSHED STONE SOLD OR USED BY PRODUCERS, BY USE: 1985

(Thousand short tons and thousand dollars)

Use	Quantity	Value
Coarse aggregate (+1-1/2 inch):		
Riprap and jetty stone	239,601	907,683
Filter Stone	499,719	1,959,430
Coarse aggregate, graded:		
Concrete aggregate, coarse	1,595,684	4,684,580
Bituminous aggregate, coarse	394,100	1,211,323
Bituminous surface treatment aggregate	648,071	2,422,950
Railroad ballast	616,522	2,164,005
Fine aggregate (-3/8 inch):		
Stone Sand-concrete	84,593	215,897
Stone sand, bituminous mix or seal	506,709	1,528,067
Screening, undesignated	224,648	503,343
Coarse and fine aggregate:		
Graded road base or subbase	2,965,684	6,755,980
Unpaved road surfacing	1,229,196	4,953,491
Agricultural:		
Agricultural limestone	444,071	1,758,883
Chemical and metallurgical:		
Cement manufacture	6,146,102	14,250,061
Lime manufacture	5,801,227	18,221,836
Flux stone	6,265,485	21,673,816
Other uses[a]	3,023,881	12,741,332
Total	30,685,293	95,952,679

SOURCE: U.S. Bureau of Mines.

[a] Includes poultry grit and mineral food, terrazo and exposed aggregate, chemical stone for alkali works, disinfectant, combined coarse and fine aggregates, waste treatment and other uses not specified.

TABLE XIII-10. PERMITS TO DRILL, AND OIL AND GAS WELL COMPLETIONS IN MICHIGAN: 1955-1982

		Classification of well completions					
				Service wells			
Year	Permits issued	Oil wells	Gas wells	OBS-GS[a]	BDW-LPG[b]	Dry holes	Total completions
1955	484	204	13	1	1	291	510
1956	476	196	12	28	0	227	463
1957	461	176	40	35	3	207	461
1958	481	166	20	36	4	227	453
1959	727	257	47	72	4	272	652
1960	904	372	19	79	1	441	912
1961	849	207	57	74	3	376	817
1962	711	148	62	53	4	474	741
1963	704	135	72	56	2	384	650
1964	583	82	48	126[c]	0	376	632
1965	494	53	34	106	0	291	485
1966	430	56	45	11	2	290	404
1967	405	69	38	26	0	287	420
1968	378	70	12	30[d]	6	251	369
1969	379	73	9	26	0	239	347
1970	425	50	16	108	3	211	388
1971	425	83	31	83	13	186	396
1972	423	84	38	64	2	186	374
1973	445	81	47	67	0	173	369
1974	503	134	61	54	2	235	484
1975	653	167	40	38	0	330	571
1976	645	120	57	50	0	333	560
1977	692	136	70	49	1	341	597
1978	690	146	57	74	0	325	602
1979	649	173	58	68	0	290	589
1980	856	208	51	57	0	416	732
1981	1,048	252	43	34	0	450	779
1982	1,052	370	57	34	0	505	966

SOURCE: Michigan Department of Natural Resources, *Michigan's Oil and Gas Fields*, 1955 through 1982 (Lansing: annually); and special release.

a. OBS-GS: wells used for gas storage or observation.

b. LPG injection and extraction wells in liquified petroleum gas storage facilities and brine disposal wells.

c. Includes three brine disposal wells, one water injection well, and one geological information test.

d. Includes two water injection wells and one brine disposal well.

TABLE XIII-2. SELECTED DATA FOR MINERAL INDUSTRIES IN MICHIGAN AND THE UNITED STATES: 1954, 1958, 1963, 1967, 1972, 1977, AND 1982

	Establishments Total (Number)		All employees[a] Number (0,000)		All employees[a] Payroll ($1,000,000)		Value added in Mining ($1,000,000)	
Year	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.
1954	567	37,641	16.4	787.1	76.3	3,394.8	149.1	11,558.7[d]
1958	539	36,392	14.3	733.9	73.2	3,749.0	158.0	13,385.2
1963	691[b]	38,651[c]	12.2	615.6	75.2	3,742.5	223.1	15,910.0
1967	459[b]	28,579[c]	12.2	567.3	88.0	4,186.8	289.9	19,330.2
1972	409[b]	25,269[c]	11.4	595.1	119.9	6,225.5	306.3	26,470.6
1977	499[b]	31,359[c]	11.3	798.8	203.3	13,166.8	938.9	68,013.1
1982[e]	940	72,990	10.8	1,105.1	280.2	28,329.5	1,937.5	190,237.2

SOURCE: Bureau of the Census, 1977 Census of Mineral Industries, Geographic Area Series (Washington, D.C.: March 1981), MIC77-A-3, Table 1; and 1982 Census of Mineral Industries, Geographic Area Statistics (Washington, D.C.: July 1984), Table 1.

a. For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for hours worked. No data was obtained on other employees at such operations; hence, the same employment and payroll figures are included for all employees as for production, development, and exploration workers.

b. In 1977, 1972, and 1967 data for companies without paid employees were excluded from the census of mineral industries. In 1963, there were 854 single-unit establishments without paid employees in the states covered by this report. In the 1963 census, establishments without paid employees for mining as a whole accounted for approximately 3 percent of value added.

c. In 1977, 1972, and 1967, data for single-unit establishments without paid employees were excluded from the census. In 1963, there were 6,543 single-unit establishments without paid employees in the States. In the 1963 census, establishments without paid employees for mining as a whole accounted for approximately 3 percent of value added.

d. Excludes data for uranium-radium-vanadium ores industry.

e. Preliminary data.

TABLE XIII-4. QUANTITY OF SELECTED MINERALS AND FUELS PRODUCED IN MICHIGAN: 1979-1985

Commodity	Units of measure	1979	1980	1981	1982	1983	1984	1985
Metallic								
Copper	1,000 short tons	44	36	43	32	n.a.	5	0
Iron	1,000 long tons	17,081	16,267	15,602	6,792	9,333	12,974	12,450
Silver	1,000 troy ounces	475	(c)	(c)	(c)	n.a.	n.a.	n.a.
Nonmetallic								
Cement	1,000 short tons	5,944	4,972	4,044	3,390	4,085	4,500	4,726
Clay and shale	1,000 short tons	2,072	1,982	1,610	1,022	1,530	1,352	1,477
Gypsum	1,000 short tons	2,562	1,383	1,066	682	790	1,218	1,772
Lime	1,000 short tons	1,057	836	807	571	583	557	534
Natural salines[b]	1,000 short tons	n.a.	n.a.	1,183	1,038	n.a.	1,203	953
Peat	1,000 short tons	258	253	237	241	186	223	282
Salt	1,000 short tons	3,080	2,406	2,321	2,002	1,331	1,160	991
Sand and gravel	1,000 short tons	50,169	36,597	32,893	23,487	26,500	30,640	41,345
Stone[a]	1,000 short tons	39,818	32,100	30,019	20,704	25,004	26,804	30,689
Fuels								
Petroleum	1,000 barrels	34,862	33,808	32,664	31,596	31,335	30,935	n.a.
Natural gas	1,000 thousand cubic feet	150,731	158,302	152,593	143,319	154,500	141,550	n.a.

SOURCE: Michigan Department of Natural Resources, special release.

a. Includes marl.
b. Includes bromine, iodine, calcium-magnesium chloride, and magnesium compounds.
c. Included in copper.
n.a.: Data not available.

TABLE XIII-9. INDUSTRIAL SAND AND GRAVEL SOLD OR USED, BY PRODUCER AND USE: 1983, 1984, AND 1985

(In thousands of short tons and thousands of dollars)

Use	1983			1984			1985		
	Quantity	Value	Value per ton	Quantity	Value	Value per ton	Quantity	Value	Value per ton
Construction:									
Sand	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Gravel	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
TOTAL[a] or average	23,000[b]	52,300[b]	2.27[b]	36,071	76,540	2.12	38,000[b]	93,000[b]	2.45[b]
Industrial:									
Sand	3,545	27,577	7.78	3,400	33,060	9.72	3,345	25,469	7.61
Gravel	--	--	--	--	--	--	--	--	--
TOTAL	3,545	27,577	7.78	3,400	33,060	9.72	3,345	25,469	7.61
GRAND TOTAL[a] or average	26,545[b]	79,877[b]	3.01[b]	39,471	109,600	2.78	41,345[b]	118,469[b]	2.86[b]

SOURCE: U.S. Bureau of Mines.

a. Totals may not add due to rounding.
b. Estimated, producers not canvassed for construction sand and gravel production.

TABLE XIII-12. NATURAL GAS PLANT OPERATIONS IN MICHIGAN, BY PLANT OR FIELD: 1982

Plant or field	Total input (Mcf.)	Sales to pipe line (Mcf.)	Liquefied petroleum gas recovery (gallons)
Albion-Scipio	5,229,689	3,503,360	19,389,970
Aurelius	4,828,550	4,078,177	12,016,278
Beaver Creek	2,190,684	42,600	871,872
Chester	0	0	0
Columbus, Section 3	1,060,816	0	1,459,711
Convis	116,735	78,577	137,955
Frederic 15	162,343	14,506	0
Hamilton[a]	104,614	40,079	0
Kalkaska (Amoco)	40,125,847	36,985,506	96,680,333
Kalkaska (Shell)	76,207,029	62,352,328	327,773,670
Leonard	1,361,895	970,547	1,574,639
Manistee (Aztoc)	173,413	70,256	291,896
Marathon (Otter Lake)	794,997	761,766	1,503,050
Otsego 27	270,439	327,391	321,235
Reed City	9,951,253	0	2,832,727
Romeo	4,436,445	4,415,789	3,562,814
White Oak	503,215	471,270	810,077
Winterfield	827,173	720,083	2,650,107
TOTAL	148,345,137	114,864,230	471,871,339

SOURCE: Michigan Department of Natural Resources, *Michigan's Oil and Gas Fields, 1982* (Lansing: 1984), Table 26.

NOTE: This table is the record of plants which are serving oil field operations, or which are extracting natural gas liquids from designated dry gas sources.

[a] Receives and processes oil well gas only.

XIV. CONSTRUCTION

There have been four census of construction industries since 1939, one for 1967 and others for 1972, 1977, and 1983. Current law authorizes the U.S. Bureau of the Census to canvass the nation's industrial and business establishments at five-year intervals (for years ending in 2 and 7). These economic censuses cover construction industries, manufacturing, mining, retail trade, selected services, selected transportation, and wholesale trade.

Each establishment is classified on the basis of its major economic activity; those primarily engaged in contract construction (general contractors or special trade contractors such as plumbing and electrical work), in construction for sales on their own account (operative builders), or in subdividing real property into lots (subdividers and developers, except cemeteries).

A construction establishment is a place of business from which such activities as estimating, bidding, scheduling, purchasing, supervision, and so forth, are conducted irrespective of the locations of construction sites that are not separate establishments in and of themselves. A construction concern engaging in two or more distinctly different lines of economic activity, such as wholesaling or retailing, reports on each separately, provided that each activity is of substantial size and that separate records are available or can be estimated for the activity.

Construction firms are divided into those with payroll and those without. The former were queried in a census survey as to whether they were large, medium, or small. Nonemployers were not required to complete a Census of Construction Industries questionnaire; instead, the Census Bureau obtained relevant information from administrative records of other agencies.

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TABLE XIII-11. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1983

Commodity and company	Address	Type of activity	County
Cement:			
Aetna Cement Corp., a subsidiary of Lake Ontario Cement Ltd.	Box 80 Essexville, MI 48732	Grinding plant	Bay
Dundee Cement Co., a division of Holderbank Financiere Glaris S.A.[1,2]	Box 122 Dundee, MI 48131	Quarry, clay pit, plant	Monroe
Medusa Cement Co., Medusa Corp., a subsidiary of Crane Co.[1,2]	Box 5668 Cleveland, OH 44101	Quarry and plant Clay pit	Charlevoix Antrim
National Gypsum Co., Huron Cement Div.[1,2]	4000 Town Center Suite 2000 Southfield, MI 48075	Quarry, clay pit, plant	Alpena
St. Mary's Cement Ltd.:	22 Yonge St. Toronto, Ontario M4S 2C6, Canada		
St. Mary's Peerless Cement Co.		Plant	Wayne
Wyandotte Cement, Inc.		Grinding plant	Do
Clays:			
F.W. Ritter Sons Co.	12670 North Dixie Hwy. South Rockwood, MI 48179	Clay pit and plant	Monroe
Charles J. Rogers, Inc.	Box 3080 Melvindale, MI 48122	Clay pit	Wayne
U.S. Brick Co., Michigan Div., a subsidiary of Canada Brick Co.	3820 Serr Rd. Corunna, MI 48817	Clay pit and plant	Shiawassee
Gypsum:			
Domtar Industries, Inc.	Box 1670 Grand Rapids, MI 49501	Underground mine and plant	Kent
Georgia-Pacific Corp.	133 Peachtree St., NE Atlanta, GA 30303	do	Do
Michigan Gypsum Co.	Box 6280 Saginaw, MI 48608	Open pit mine	Iosco
National Gypsum Co.	2001 Rexford Rd. Charlotte, NC 28211	Open pit mine and plant	Do
United States Gypsum Co.	101 South Wacker Dr. Chicago, IL 60606	Open pit mine Plant	Do Wayne

TABLE XIII-11. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1983 (cont.)

Commodity and company	Address	Type of activity	County
Iron ore:			
Cleveland-Cliffs Iron Co.[3]	504 Spruce St. Ishpeming, MI 49849	Open pit mines and plants	Marquette
Iron and steel:			
McLouth Steel Products Corp.	300 South Livernois Ave., Detroit, MI 48217	Plant	Wayne
National Steel Corp., Great Lakes Steel Div.	Tecumseh Rd. Ecorse, MI 48229	do	Do
Rouge Steel Co., a subsidiary of Ford Motor Co.	3001 Miller Rd. Dearborn, MI 48121	do	Do
Lime:			
Detroit Lime Co., a subsidiary of Edward C. Levy Co.	9300 Dix Ave. Dearborn, MI 48120	do	Do
The Dow Chemical Co., Ludington Div.	2020 Dow Center Midland, MI 48640	do	Mason
Marblehead Lime Co., a division of General Dynamics Corp.	300 West Washington St., Chicago, IL 60606	Plants	Wayne
Michigan Sugar Co.	Box 1348 Saginaw, MI 48605	Plants	Huron, Saginaw, Sanilac, Tuscola
Peat:			
Al-Par Peat Co.	9551 Krouse Ovid, MI 48866	Bog and plant	Shiawassee
Fletcher & Rickard	25800 Haas Rd. New Hudson, MI 48165	do	Oakland
Hyponex Corp.	2013 South Anthony Blvd., Fort Wayne, IN 46803	Bogs and plants	Lapeer and Shiawassee
Michigan Peat Co.	Box 66388 Houston, TX 77266	do	Sanilac

TABLE XIII-11. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1983 (cont.)

Commodity and company	Address	Type of activity	County
Perlite (expanded):			
Harborlite Corp.	Box 458 Escondido, CA 92025	Plant	Kalamazoo
United States Gypsum Co.	101 South Wacker Dr. Chicago, IL 60606	Open pit mine Plant	Do Wayne
Salines (natural):[4]			
The Dow Chemical Co.	2020 Dow Center Midland, MI 48640	Brine wells and plants	Mason and Midland
Martin Marietta Corp., Magnesia Specialties Div.	Executive Plaza II Hunt Valley, MD 21030	Brine wells and plant	Manistee
Morton Thiokol, Inc.	110 North Wacker Dr. Chicago, IL 60606	do	Do
Salt:			
Diamond Crystal Salt Co.	916 South Riverside St. Clair, MI 48079	do	St. Clair
Hardy Salt Co.	Drawer 449 St. Louis, MO 63166	do	Manistee
Morton Salt Co., a division of Morton Thiokol, Inc.	110 North Wacker Dr. Chicago, IL 60606	do	Manistee and St. Clair
Sand and gravel:			
Construction:			
American Aggregates Corp.	Drawer 160 Greenville, OH 45331	Pits and plants	Kalamazoo, Livingston, Macomb, Oakland
Blount Materials Corp.	Box 1468 Saginaw, MI 48605	do	Oakland and Osceola
Holloway Sand & Gravel Co., Inc.	29250 Wixom Rd. Wixom, MI 48096	do	Lapeer, Oakland, Washtenaw
Edward C. Levy Co.:			
Lyon Sand & Gravel Co.	4780 South Hill New Hudson, MI 48165	do	Oakland
Milford Sand & Gravel Co.	do	do	Do

TABLE XIII-11. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1983 (cont.)

Commodity and company	Address	Type of activity	County
Sand and gravel:			
Construction: (cont.)			
Bill Smith Sand & Gravel, Inc.	Box 23 Otsego, MI 49078	do	Allegan, Delta, Huron, Kalamazoo, Tuscola
Whittaker & Gooding Co.	5800 Cherry Hill Rd. Ypsilanti, MI 48197	do	Lapeer, Oakland, Washtenaw
Yerington Construction Co.	1055 North Shore Dr. Benton Harbor, MI 49022	do	Barry, Berrien, Cass, Kalamazoo, Van Buren
Industrial:			
Construction Aggregates Corp.	Box 68 Ferrysburg, MI 49409	Pit and plant	Ottawa
Manley Brothers of Indiana, Inc.	Box 538 Chesterton, IN 46304	Pits and plants	Berrien and Van Buren
Nugent Sand Co., Inc.	Box 1209 Muskegon, MI 49443	do	Muskegon
Ottawa Silica Co., Michigan Silica Div.	Box 577 Ottawa, IL 61350	Pit and plant	Wayne
Sand Products Corp.	1938 First National Bldg., Detroit, MI 48226	do	Oceana
Sargent Sand Co.	Box 6280 Saginaw, MI 48608	Pits and plants	Mason, Tuscola, Wexford
Unimin Corp.	258 Elm St. New Canaan, CT 06840	Pit and plant	Berrien
Slag--iron and steel:			
Edward C. Levy Co.	8800 Dix Ave. Detroit, MI 48209	Plants	Wayne

TABLE XIII-11. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1983 (cont.)

Commodity and company	Address	Type of activity	County
Stone (1983):			
Crushed:			
Limestone:			
Drummond Dolomite, Inc., a division of Bethlehem Steel Corp.	Martin Tower Bethlehem, PA 18016	Quarry and plant	Chippewa
France Stone Co.	Box 1928 Toledo, OH 43603	do	Monroe
Inland Lime & Stone Co., a division of Inland Steel Co.	Gulliver, MI 49840	Quarries and plants	Mackinac and Schoolcraft
Presque Isle Corp.	Box 426 Alpena, MI 49707	Quarry and plant	Presque Isle
Rockwood Stone, Inc.	Box 113 Rockwood, MI 48173	Quarries and plants	Monroe and Wayne
United States Steel Corp. Michigan Limestone Operations	Rogers City, MI 49779	do	Mackinac and Presque Isle
Marl:			
Poehlman & Son	Route 2 Cassopolis, MI 49031	Pit	Cass
Traprock:			
Houghton County Road Commission	Box 269 Hancock, MI 49930	Quarries and plant	Houghton
Dimension:			
Limestone:			
Inwood Stone Products Co.	Box 24 Cooks, MI 49817	Quarry	Schoolcraft
Onaway Stone Co.	715 Three Mile Rd. Traverse, MI 49684	do	Presque Isle
Sandstone:			
Jude Stone Quarry Co.	338 Austin Rd. Napoleon, MI 49261	do	Jackson

TABLE XIII-11. PRINCIPAL MINERAL PRODUCERS IN MICHIGAN: 1983 (cont.)

Commodity and company	Address	Type of activity	County
Sulfur (recovered):			
Marathon Oil Co.	1300 South Fort St. Detroit, MI 48217	Elemental sulfur recovered as a byproduct of oil refining.	Wayne
Shell Western E&P, Inc.	Box 1523 Houston, TX 77251	do	Manistee
Total Petroleum, Inc.	999 18th St., 23rd Floor Denver, CO 80202	do	Gratiot
Vermiculite (exfoliated):			
W.R. Grace & Co.	62 Whittemore Ave. Cambridge, MA 02140	Processing plant	Wayne

SOURCE: U. S. Bureau of Mines, Minerals Yearbook, 1984.

[1] Also clays.
[2] Also crushed limestone.
[3] Also crude iron oxide pigments.
[4] Includes bromine, calcium chloride, iodine, and magnesium compounds.

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TABLE XIV-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF PRODUCTION WORKERS IN MICHIGAN AND UNITED STATES ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, OR DEVELOPING: 1956-1985

	Michigan				United States			
	Employment (000)	Weekly		Hourly earnings	Employment (000)	Weekly		Hourly earnings
Year		Hours	Earnings			Hours	Earnings	
1956	115.5	38.5	114.48	2.98	3,039	37.5	96.38	2.57
1957	109.1	37.0	116.85	3.16	2,962	37.0	100.27	2.71
1958	95.3	36.9	123.02	3.33	2,817	36.8	103.78	2.82
1959	97.7	37.9	131.06	3.46	3,004	37.0	108.41	2.93
1960	98.6	37.5	131.03	3.49	2,926	36.7	112.67	3.07
1961	92.6	37.8	132.98	3.52	2,859	36.9	118.08	3.20
1962	89.2	34.9	134.37	3.85	2,948	37.0	122.47	3.31
1963	95.4	35.5	141.89	4.00	3,010	37.3	127.19	3.41
1964	101.0	35.3	145.79	4.13	3,097	37.2	132.06	3.55
1965	112.7	39.7	178.09	4.49	3,232	37.4	138.38	3.70
1966	116.9	39.4	188.77	4.79	3,317	37.6	146.26	3.89
1967	121.8	40.9	202.46	4.95	3,248	37.7	154.95	4.11
1968	109.3	39.2	211.33	5.39	3,350	37.3	164.49	4.41
1969	130.5	38.9	246.70	6.34	3,575	37.9	181.54	4.79
1970	118.5	37.2	257.09	6.91	3,588	37.3	195.45	5.24
1971	120.5	36.3	275.92	7.60	3,704	37.2	211.67	5.69
1972	127.5	36.5	290.37	7.96	3,889	36.5	221.19	6.06
1973	131.4	36.8	306.62	8.33	4,097	36.8	235.89	6.41
1974	125.8	36.5	319.99	8.76	4,020	36.6	249.25	6.81
1975	106.3	36.6	338.18	9.24	3,525	36.4	266.08	7.31
1976	110.0	36.9	362.90	9.84	3,576	36.8	283.73	7.71
1977	122.8	36.5	384.05	10.52	3,851	36.5	295.65	8.10
1978	138.8	38.0	429.92	11.31	4,229	36.8	318.69	8.66
1979	139.5	37.6	444.66	11.83	4,463	37.0	342.99	9.27
1980	116.8	36.2	457.35	12.63	4,346	37.0	367.78	9.94
1981	106.8	36.5	502.27	13.75	4,188	36.9	399.26	10.82
1982	89.5	36.0	518.15	14.37	3,905	36.7	426.82	11.63
1983	86.5	36.4	526.89	14.47	3,948	37.1	442.97	11.94
1984	92.7	37.5	544.87	11.53	4,383	37.8	458.81	12.13
1985	98.8	38.4	582.91	15.18	4,687	37.7	464.09	12.31

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), March 1986, Tables B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June, 1986).

TABLE XIV-2. SUMMARY STATISTICS FOR MICHIGAN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING: 1972, 1977, AND 1982

Item	1972	1977	1982
Proprietors and working partners			
Total	28,778	34,221	34,312
In establishments with payroll	10,423	9,199	4,491
Total receipts, establishments without payroll ($000)	344,525	651,641	839,520
Establishments with payroll			
Number:			
With 1 - 9 employees	13,537	13,623	11,926
With 10-49 employees	2,489	2,419	1,782
With 50-99 employees	253	206	166
With 100 employees or more	125	105	59
Total	16,404	16,354	13,953
Number of employees:			
Mid-March	107,609	102,460	n.a.
Mid-May	130,655	133,427	n.a.
Mid-August	146,165	143,109	n.a.
Mid-November	131,886	133,332	n.a.
Average	130,828	128,198	n.a.
Payroll, entire year ($000)	1,527,560	1,923,025	2,178,928
Construction workers:			
Mid-March	84,603	83,053	70,197
Mid-May	106,659	112,002	85,322
Mid-August	121,437	122,138	92,422
Mid-November	107,387	112,054	82,881
Average	106,685	107,420	84,331
Payroll, entire year ($000)	1,220,662	1,537,235	1,663,174
Total selected payments ($000)	3,231,495	4,326,389	5,102,570
Materials, components, and supplies ($000)	1,654,576	2,248,550	2,115,457
Construction work subcontracted to others ($000)	1,576,919	1,941,319	2,816,275
Total receipts ($000)	5,961,230	7,759,714	9,301,645
Total construction receipts ($000)	5,746,253	7,549,535	8,991,253
Receipts for work subcontracted in from others ($000)	1,278,948	1,852,362	1,794,525
Other business receipts and land receipts ($000)	214,977	210,179	310,392
Net construction receipts ($000)	4,169,334	5,608,217	6,174,978
Value added in construction ($000)	2,615,296	3,378,784	4,182,301

SOURCE: Bureau of the Census, U.S. Census of Construction Industries, 1982, Area Series, East North Central States (Washington, D.C.: 1985), CC82-A-3, Tables 4 and 7; and similar documents for previous years.
n.a.: Data not available.

TABLE XIV-3. SUMMARY STATISTICS FOR UNITED STATES ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING: 1972, 1977, AND 1982

Item	1972	1977	1982
Number of establishments with payroll:			
With 1 - 9 employees	351,494	391,345	370,274
With 10-49 employees	73,937	77,692	75,161
With 50-99 employees	7,991	7,041	7,090
With 100 employees or more	4,519	3,936	4,175
Total	437,941	480,014	456,701
Proprietors and working partners:			
Total	748,253	1,013,961	1,089,667
In establishments with payroll	274,434	279,309	158,821
Total receipts, establishments without payroll ($000)	8,608,039	20,150,970	40,908,315
Establishments with payroll			
Number of employees:			
Mid-March	3,668,194	3,782,235	n.a.
Mid-May	4,077,149	4,371,767	n.a.
Mid-August	4,475,893	4,585,861	n.a.
Mid-November	4,179,628	4,336,522	n.a.
Average	4,145,779	4,272,659	n.a.
Payroll, entire year ($,000)	40,004,782	54,980,063	78,665,661
Construction workers:			
Mid-March	3,034,864	3,104,164	3,176,450
Mid-May	3,424,013	3,648,751	3,473,450
Mid-August	3,800,426	3,872,029	3,611,601
Mid-November	3,509,774	3,623,655	3,372,635
Average	3,486,592	3,565,469	3,453,239
Payroll, entire year ($000)	32,187,130	43,112,339	60,174,654
Total selected payments ($000)	84,623,758	112,110,369	230,224,641
Materials, components, and supplies ($000)	46,426,441	67,983,316	90,248,568
Construction work subcontracted to others ($000)	38,199,317	50,328,020	78,911,067
Total receipts ($000)	155,849,652	224,664,938	324,512,432
Total construction receipts ($000)	149,429,496	214,844,319	312,178,494
Receipts for work subcontracted in from others ($000)	30,857,137	49,806,349	69,838,064
Other business receipts and land receipts ($000)	6,420,156	9,820,620	12,333,937
Net construction receipts ($000)	111,232,179	164,516,299	233,267,426
Value added in construction ($000)	68,197,327	98,863,653	145,965,137

SOURCE: Bureau of the Census, U.S. Census of Construction Industries, 1982, U.S. Summary (Washington, D.C.: 1985), CC82-A-10, Tables 1, 4, and 7; and similar documents for previous years.
n.a.: Data not available.

TABLE XIV-4. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percentage	
County	1974	1984	County	1974	1984
Montmorency	12.20	16.78	Lapeer	4.70	3.41
Mackinac	(D)	11.26	Ontonagon	1.07	3.39
Benzie	(D)	11.00	Huron	2.91	3.37
Iron	16.28	10.04	Macomb	5.42	3.35
Alcona	13.52	9.45	Washtenaw	3.97	3.18
Midland	7.75	9.16	Kalamazoo	6.49	3.17
Leelanau	9.48	8.89	Menominee	5.14	3.10
Cheboygan	8.85	8.37	Gogebic	(D)	2.99
Dickinson	16.03	8.07	Iosco	4.07	2.98
Kalkaska	15.94	7.58	Calhoun	3.37	2.85
Emmet	9.85	7.33	Mecosta	5.11	2.85
Missaukee	11.43	7.01	Arenac	1.97	2.85
St. Clair	5.13	6.90	Berrien	4.23	2.78
Oscoda	8.63	6.64	Allegan	4.85	2.69
Baraga	3.52	6.06	Shiawassee	3.54	2.69
Van Buren	9.60	5.91	Ingham	5.60	2.68
Gladwin	7.83	5.77	Schoolcraft	3.12	2.67
Chippewa	4.56	5.60	Saginaw	4.45	2.66
Lake	(D)	5.56	Sanilac	3.17	2.64
Houghton	8.39	5.47	Osceola	2.46	2.63
Charlevoix	5.29	5.11	Montcalm	3.21	2.46
Oceana	3.06	5.06	Tuscola	3.21	2.45
Mason	6.58	5.04	Wayne	3.91	2.45
Clare	7.48	5.03	Barry	3.17	2.42
Ogemaw	6.06	4.78	Newaygo	3.52	2.41
Livingston	6.72	4.71	Jackson	4.79	2.41
Clinton	7.66	4.49	Branch	3.76	2.17
Grand Traverse	9.35	4.43	Hillsdale	3.11	2.10
Antrim	(D)	4.30	Gratiot	3.50	2.08
Muskegon	5.62	4.13	Genesee	3.80	2.05
Kent	6.37	4.06	St. Joseph	4.10	1.98
Roscommon	4.66	4.03	Lenawee	3.36	1.97
Oakland	8.59	4.01	Alger	2.57	1.96
Otsego	(D)	3.97	Ionia	3.55	1.85
Crawford	4.60	3.89	Cass	2.79	1.76
Manistee	4.76	3.73	Presque Isle	2.68	1.76
Ottawa	5.86	3.72	Wexford	4.39	1.60
Marquette	6.37	3.70	Luce	1.57	1.27
Eaton	5.03	3.68	Keweenaw	(D)	(D)
Alpena	6.12	3.63	Monroe	7.10	(D)
Delta	4.14	3.62			
Bay	5.25	3.62	Michigan	5.09	3.21
Isabella	6.32	3.54	United States	6.21	5.42

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XIV-5. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN ESTABLISHMENTS WHOSE PRIMARY ECONOMIC ACTIVITY IS CONTRACT CONSTRUCTION, SUBDIVIDING, AND DEVELOPING: 1983-1984

	Percentage change	
County	1974-1984	1983-1984
Ontonagon	141	44
Otsego	(D)	41
Branch	9	41
Benzie	(D)	36
Shiawassee	34	35
Ingham	18	34
Arenac	153	31
Lenawee	-1	31
Hillsdale	37	30
Mason	43	29
Chippewa	52	29
Marquette	15	29
Iron	19	29
Schoolcraft	71	28
Alpena	8	27
Delta	68	26
Montmorency	114	25
Huron	87	25
Oakland	25	24
Livingston	92	24
Barry	46	24
Cass	35	23
Sanilac	29	23
Macomb	29	23
Ottawa	77	22
Manistee	62	21
Roscommon	95	21
Isabella	24	21
Oceana	175	21
Allegan	23	21
Emmet	60	21
Wayne	-1	20
Saginaw	16	19
Crawford	83	19
Mecosta	14	18
Newaygo	45	18
Jackson	-16	18
Gratiot	-6	18
Clinton	27	17
Tuscola	16	16
Lake	(D)	15
Muskegon	39	15
Wexford	-12	15
Alcona	56	14
Missaukee	12	14
Cheboygan	87	14
Ionia	4	13
Bay	19	12
Alger	43	12
Ogemaw	73	11
Dickinson	-1	11
Calhoun	50	11
Genesee	23	10
Grand Traverse	38	10
Iosco	36	10
Menominee	31	10
Mackinac	(D)	9
Luce	75	9
Gladwin	56	9
Leelanau	29	9
Kent	51	8
Gogebic	(D)	8
Lapeer	50	8
Oscoda	20	8
Antrim	(D)	6
Houghton	35	5
Baraga	184	5
Eaton	54	3
Charlevoix	98	3
Montcalm	65	2
Washtenaw	111	1
Kalamazoo	13	0
Presque Isle	16	-1
St. Joseph	3	-2
Kalkaska	84	-13
Clare	47	-17
Berrien	4	-20
Osceola	104	-27
Van Buren	6	-28
Midland	140	-39
St. Clair	181	-42
Keweenaw	(D)	(D)
Monroe	(D)	(D)
Michigan	25	8
United States	108	14

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE XIV-9. NUMBER OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983

SMSA	Year	In structures with: 1 unit	2 units	3 and 4 units	5 units or more	Total
Ann Arbor	1976	821	4	0	280	1,105
	1977	1,266	18	0	386	1,670
	1978	1,460	16	0	914	2,390
	1979	1,078	30	23	171	1,302
	1980	453	22	4	442	921
	1981	245	26	-	-	271
	1982	142	8	4	60	214
	1983	327	4	8	6	345
Battle Creek	1976	651	10	0	300	961
	1977	554	4	20	267	845
	1978	534	2	44	201	781
	1979	497	18	70	246	831
	1980	273	10	0	409	692
	1981	207	4	8	-	219
	1982	170	0	0	6	176
	1983	264	2	0	24	290
Bay City	1976	458	2	12	350	822
	1977	525	2	0	0	527
	1978	494	6	0	0	500
	1979	309	10	27	0	346
	1980	169	0	0	5	174
	1981	87	0	0	0	87
	1982	53	2	0	16	71
	1983	97	4	8	0	109
Detroit	1976	13,070	80	300	4,764	18,214
	1977	18,239	106	471	5,895	24,711
	1978	18,625	100	628	7,056	26,409
	1979	13,645	208	648	5,554	20,050
	1980	5,660	108	465	3,459	9,692
	1981	2,891	56	116	2,397	5,460
	1982	1,979	36	121	2,467	4,603
	1983	5,433	104	328	2,297	8,162
Flint	1976	1,447	8	8	398	1,861
	1977	2,067	8	60	1,147	3,282
	1978	2,192	12	19	1,054	3,277
	1979	1,577	32	71	601	2,281
	1980	873	14	16	341	1,244
	1981	465	14	15	137	631
	1982	299	6	0	48	353
	1983	459	6	16	253	734
Grand Rapids	1976	2,325	274	65	1,147	3,811
	1977	2,775	280	58	1,450	4,563
	1978	3,106	438	115	2,173	5,832
	1979	2,554	302	174	1,093	4,123
	1980	1,701	250	58	618	2,627
	1981	1,209	124	194	382	1,909
	1982	912	64	59	511	1,546
	1983	1,795	122	251	491	2,659

TABLE XIV-6. NUMBER OF RESIDENTIAL AND NONRESIDENTIAL UNITS AUTHORIZED IN MICHIGAN PERMIT ISSUING PLACES, BY CATEGORY: 1980-1985

Category	Number of units					
	1980	1981	1982	1983	1984	1985
One-family houses	17,870	11,595	8,288	15,219	17,209	21,854
Two-family buildings	780	454	248	406	424	422
Three- & four-family buildings	999	874	432	878	1,415	1,655
Five- or more family buildings	9,327	5,994	5,409	5,180	8,710	13,744
Total	28,976	18,917	14,377	21,683	27,758	37,675
Mobile homes (house trailers)[a]	4,768	4,922	4,427	4,613	5,172	6,177
Transient hotels, motels, tourist courts and cabins	1,629	724	859	1,018	1,869	5,149
Other non-housekeeping shelters	123	76	27	91	58	157
Amusement & recreational bldgs.	125	133	146	133	121	165
Churches & other religious bldgs.	142	126	137	113	113	117
Industrial buildings	789	634	479	630	857	1,149
Parking garages (open to gen'l. public)	320	199	16	17	39	27
Residential garages & carports	13,241	13,271	13,357	14,626	16,030	16,665
Service stations & repair garages	118	117	104	99	164	164
Hospitals & other inst'l. bldgs.	42	42	29	47	54	47
Office, bank, & professional bldgs.	542	459	310	438	531	627
Public works & utilities bldgs.	83	152	128	96	99	126
Schools & other educational bldgs.	42	39	39	42	58	33
Stores & other mercantile bldgs.	934	787	620	776	1,083	1,211
Other nonresidential buildings	5,734	5,882	5,648	6,022	6,814	7,048
Structures other than buildings	5,149	5,281	3,881	4,526	4,700	5,308
Additions, alterations, & conversions						
Housekeeping residential buildings	50,793	52,398	42,583	45,158	44,471	48,387
All other buildings & structures	12,714	12,511	11,941	13,519	14,516	15,088

SOURCE: Bureau of the Census, special release.

a. Includes only house trailers for which building permits are issued.

TABLE XIV-7. VALUATION OF RESIDENTIAL AND NONRESIDENTIAL UNITS AUTHORIZED IN MICHIGAN PERMIT ISSUING PLACES, BY CATEGORY: 1980-1985

(In millions of dollars)

Category	1980	1981	1982	1983	1984	1985
One family houses	873.8	579.5	393.6	829.5	1,002.5	1,351.3
Two-family buildings	25.1	15.5	8.8	14.6	16.6	18.3
Three-and four-family buildings	31.1	26.9	13.6	31.0	52.9	67.6
Five- or more family buildings	281.0	234.1	199.9	140.9	252.3	396.5
Total	1,164.1	821.8	593.2	1,015.9	1,324.2	1,833.7
Mobile homes (house trailers)[a]	29.8	37.0	30.8	35.3	41.7	73.9
Transient hotels, motels, tourist courts and cabins	51.8	19.6	8.6	12.7	86.9	130.9
Other non-housekeeping shelters	.9	.6	.3	1.6	1.2	.9
Amusement and recreational buildings	11.9	21.9	17.8	12.0	16.8	17.8
Churches and other religious buildings	30.1	25.0	30.5	22.3	25.4	26.0
Industrial buildings	322.1	366.9	312.4	158.2	331.0	555.5
Parking garages (open to general public)	15.3	9.8	9.3	3.2	16.9	40.0
Residential garages and carports	53.0	56.8	56.3	72.9	76.3	83.6
Service stations and repair garages	4.8	4.4	5.5	6.2	12.4	13.2
Hospitals and other institutional buildings	51.9	71.6	34.6	53.0	72.9	69.9
Office, bank, and professional buildings	260.8	211.9	121.0	209.5	353.9	408.0
Public works and utilities buildings	74.0	33.2	15.5	11.0	24.1	9.5
Schools and other educational buildings	37.9	12.9	5.9	2.5	8.0	12.0
Stores and other mercantile buildings	158.1	149.0	72.3	117.2	174.2	250.1
Other nonresidential buildings	51.3	43.3	44.5	52.5	68.8	62.2
Structures other than buildings	23.9	22.6	21.9	21.7	34.5	43.5
Additions, alterations, & conversions						
Housekeeping residential buildings	240.9	235.1	204.8	266.3	256.8	296.2
All other buildings and structures	537.3	412.7	349.9	432.7	600.3	702.9

SOURCE: Bureau of the Census, special release.

[a] Includes only house trailers for which building permits are issued.

TABLE XIV-8. NUMBER AND VALUATION OF NEW HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN: 1976-1985

Year		Privately owned					Publicly owned (contract awards)
		In structures with					
		1 unit	2 units	3 and 4 units	5 units or more	Total	
1976	No. of housing units	33,093	906	729	11,167	45,893	--
	Valuation ($000)	1,059,841	17,059	13,592	173,427	1,263,919	--
1977	No. of housing units	42,265	856	1,000	14,936	59,057	--
	Valuation ($000)	1,516,811	17,530	21,786	256,438	1,812,567	--
1978	No. of housing units	43,323	1,052	1,223	15,412	61,010	--
	Valuation ($000)	1,758,970	23,820	27,362	294,264	2,104,418	--
1979	No. of housing units	33,926	1,046	1,522	12,715	49,209	48
	Valuation ($000)	1,552,062	29,889	36,971	280,931	1,899,854	2,518
1980	No. of housing units	17,870	780	999	9,327	28,976	852
	Valuation ($000)	873,789	25,091	31,094	234,168	1,164,142	--
1981	No. of housing units	11,449	450	874	5,994	18,767	305
	Valuation ($000)	574,559	15,501	26,904	199,928	816,892	--
1982	No. of housing units	8,113	246	432	5,385	14,276	100
	Valuation ($000)	388,161	8,655	13,625	176,509	586,950	--
1983	No. of housing units	14,972	404	867	5,180	21,423	215
	Valuation ($000)	820,796	14,603	30,141	140,867	1,006,408	--
1984	No. of housing units	17,200	424	1,415	8,710	27,749	123
	Valuation ($000)	1,001,968	16,618	52,855	252,294	1,323,734	--
1985	No. of housing units	21,792	422	1,655	13,723	37,592	--
	Valuation ($000)	1,347,298	18,254	67,625	395,885	1,829,063	--

SOURCE: Bureau of Census, Construction Reports, *Housing Units Authorized by Building Permits and Public Contracts*, 1976 through 1985 (Washington, D.C.: annually), Table 2.

TABLE XIV-9. NUMBER OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983 (cont.)

SMSA	Year	In structures with 1 unit	 2 units	 3 and 4 units	 5 units or more	Total
Jackson	1976	612	36	18	250	916
	1977	544	0	3	630	1,177
	1978	529	6	0	128	663
	1979	615	10	7	139	771
	1980	219	6	--	48	273
	1981	163	2	16	--	181
	1982	100	4	8	243	355
	1983	133	0	21	24	178
Kalamazoo Portage	1976	937	34	75	926	1,972
	1977	1,271	18	154	1,197	2,640
	1978	1,117	22	111	424	1,674
	1979	996	10	112	750	1,838
	1980	634	34	79	901	1,648
	1981	420	40	151	803	1,414
	1982	249	10	55	118	432
	1983	413	16	63	420	912
Lansing	1976	1,620	136	55	698	2,509
	1977	2,144	100	78	1,478	3,800
	1978	2,013	138	130	1,174	3,455
	1979	2,237	122	190	1,437	3,986
	1980	1,302	78	92	734	2,206
	1981	725	58	154	734	1,671
	1982	480	18	18	256	772
	1983	940	12	60	200	1,212
Muskegon-Muskegon Heights-Norton Shores	1976	662	36	24	441	1,163
	1977	747	6	0	020	873
	1978	852	12	0	309	1,173
	1979	620	10	12	32	674
	1980	405	15	--	384	803
	1981	248	30	36	48	362
	1982	216	0	0	107	323
	1983	239	4	8	41	292
Saginaw	1976	776	122	8	135	1,041
	1977	875	112	36	320	1,343
	1978	955	104	16	176	1,251
	1979	708	146	0	396	1,250
	1980	315	48	120	44	527
	1981	158	16	--	64	238
	1982	104	4	0	144	252
	1983	130	14	0	66	210

SOURCE: Bureau of the Census, Housing Units Authorized by Building Permits and Public Contracts, 1976 through 1983 (Washington, D.C.: annually), Table 3.

TABLE XIV-10. VALUATION OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983

(In thousands of dollars)

		In structures with				
SMSA	Year	1 unit	2 units	3 and 4 units	5 units or more	Total
Ann Arbor	1976	28,613	58	0	3,507	32,179
	1977	48,267	357	0	7,125	55,749
	1978	65,889	391	0	14,960	81,241
	1979	59,770	1,222	1,039	3,341	65,378
	1980	31,342	939	157	12,852	45,290
	1981	15,337	722	--	--	16,059
	1982	12,733	388	240	5,465	18,825
	1983	28,562	140	500	154	29,355
Battle Creek	1976	18,812	218	0	3,140	22,170
	1977	17,257	85	364	3,112	20,818
	1978	17,561	72	1,981	2,230	21,843
	1979	18,657	585	1,520	3,076	23,839
	1980	11,720	292	0	8,254	20,266
	1981	9,252	88	180	--	9,520
	1982	5,843	--	--	45	5,888
	1983	10,538	80	0	147	10,765
Bay City	1976	12,122	30	185	3,299	15,636
	1977	16,049	25	0	0	16,074
	1978	17,251	75	0	0	17,326
	1979	12,774	282	1,119	0	14,175
	1980	6,739	0	0	363	7,103
	1981	3,391	--	--	--	3,391
	1982	1,929	38	--	350	2,317
	1983	4,048	80	365	0	4,493
Detroit	1976	487,264	1,390	6,662	90,723	586,039
	1977	754,541	2,261	11,286	127,298	895,387
	1978	877,358	2,337	14,434	156,342	1,050,469
	1979	730,391	6,134	15,015	138,104	889,645
	1980	344,559	4,225	16,289	90,887	455,960
	1981	183,182	2,140	6,154	102,633	294,109
	1982	118,077	1,725	4,281	102,702	226,784
	1983	364,248	3,129	12,253	67,623	447,253
Flint	1976	40,549	248	96	6,409	47,302
	1977	65,605	283	1,169	12,955	80,011
	1979	66,107	1,156	1,936	11,349	80,551
	1980	35,806	375	571	10,020	46,772
	1981	22,321	407	449	2,602	25,780
	1982	15,224	200	--	1,045	16,469
	1983	21,722	239	547	6,194	28,701
Grand Rapids	1976	74,150	4,848	1,129	14,664	94,791
	1977	99,326	5,432	905	17,443	123,106
	1978	123,887	9,754	2,325	33,386	169,352
	1979	120,300	8,496	3,865	22,277	154,937
	1980	83,909	8,486	1,477	14,723	108,594
	1981	58,781	4,077	4,818	11,121	78,796
	1982	47,260	2,162	1,801	13,308	64,531
	1983	96,983	5,421	7,908	11,294	121,605

TABLE XIV-10. VALUATION OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS: 1976-1983 (cont.)

(In thousands of dollars)

		In structures with				
SMSA	Year	1 unit	2 units	3 and 4 units	5 units or more	Total
Jackson	1976	14,511	476	272	3,738	18,997
	1977	15,648	0	60	7,515	23,223
	1978	17,560	114	0	1,554	19,228
	1979	21,290	186	191	2,566	24,232
	1980	8,399	188	--	959	9,546
	1981	7,599	58	576	--	8,233
	1982	4,105	208	293	5,146	9,752
	1983	5,762	0	1,060	400	7,223
Kalamazoo-Portage	1976	32,420	708	1,342	13,346	47,816
	1977	45,280	472	2,762	20,318	68,831
	1978	47,307	403	1,978	6,851	56,540
	1979	46,021	293	2,329	12,568	61,211
	1980	32,597	1,064	2,509	21,916	58,086
	1981	24,407	2,166	5,157	26,052	57,781
	1982	14,084	383	1,588	3,042	19,097
	1983	23,404	915	1,895	12,114	38,327
Lansing-E. Lansing	1976	52,967	3,563	1,222	7,996	65,749
	1977	74,916	2,862	2,668	22,066	102,512
	1978	80,384	4,177	3,348	18,593	106,503
	1979	97,525	4,437	5,168	27,911	135,041
	1980	60,507	2,571	3,493	18,502	85,073
	1981	36,172	1,877	3,713	19,526	61,289
	1982	24,263	566	848	6,527	32,204
	1983	49,874	382	2,241	4,172	56,669
Muskegon-Muskegon Heights-Norton Shores	1976	16,471	431	360	4,745	22,008
	1977	21,762	95	0	1,000	22,857
	1978	26,935	238	0	5,768	32,940
	1979	23,650	240	175	680	24,745
	1980	17,796	388	0	10,437	28,622
	1981	10,650	890	464	960	12,964
	1982	9,544	--	--	3,170	12,714
	1983	11,267	102	195	1,300	12,864
Saginaw	1976	24,027	2,081	108	1,330	27,546
	1977	29,251	1,927	293	6,039	37,510
	1978	35,896	1,946	299	2,139	40,280
	1979	29,803	3,844	0	7,669	41,316
	1981	7,162	539	--	1,234	8,936
	1982	4,531	135	--	2,650	7,315
	1983	6,290	584	0	1,250	8,124

SOURCE: Bureau of the Census, Construction Reports, Housing Units Authorized by Building Permits and Public Contracts, 1976 through 1983 (Washington, D.C.: annually), Table 3.

TABLE XIV-11. NUMBER OF NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED IN PERMIT ISSUING PLACES IN MICHIGAN STANDARD METROPOLITAN STATISTICAL AREAS, INSIDE AND OUTSIDE OF CENTRAL CITIES: 1983

	In structures with				
SMSA	1 unit	2 units	3 and 4 units	5 units or more	Total
Ann Arbor	327	4	8	6	345
Ann Arbor	89	--	--	--	89
Outside central city	238	4	8	6	256
Battle Creek	264	2	--	24	290
Battle Creek	16	--	--	24	40
Outside central city	248	2	--	--	250
Bay City	97	4	8	--	109
Bay City	n.a.	n.a.	n.a.	n.a.	n.a.
Outside central city	97	4	8	--	109
Detroit	5,433	104	328	2,297	8,162
Detroit	11	--	--	306	317
Outside central city	5,422	104	328	1,991	7,845
Flint	459	6	16	253	734
Flint	100	--	--	152	252
Outside central city	359	6	16	101	482
Grand Rapids	1,795	122	251	491	2,659
Grand Rapids	142	18	45	59	264
Outside central city	1,653	104	206	432	2,395
Jackson	133	--	21	24	178
Jackson	3	--	--	--	3
Outside central city	130	--	21	24	175
Kalamazoo-Portage	413	16	63	420	912
Kalamazoo	19	10	--	254	283
Portage	88	--	18	102	208
Outside central cities	306	6	45	64	421
Lansing-East Lansing	940	12	60	200	1,212
Lansing	14	--	--	--	14
East Lansing	114	2	16	115	247
Outside central cities	812	10	44	85	951
Muskegon-Muskegon Heights-Norton Shores	239	4	8	41	292
Muskegon	3	--	4	--	7
Muskegon Heights	--	2	--	--	2
Norton Shores	24	--	--	--	24
Outside central cities	212	2	4	41	259
Saginaw	130	14	--	66	210
Saginaw	4	--	--	42	46
Outside central city	126	14	--	24	164

SOURCE: Bureau of the Census, Construction Reports, Housing Units Authorized by Building Permits and Public Contracts: Annual 1983, (Washington, D.C.), Table 3.

TABLE XIV-12. ANNUAL CONSTRUCTION CONTRACT AWARDS IN MICHIGAN, 1967-1984, AND THE UNITED STATES: 1978-1984

(In thousands of dollars)

Year	Non-residential	Residential	Total building	Public works and utilities	Total construction
			Michigan		
1967	946,513	1,020,000	1,966,513	357,000	2,323,513
1968	912,849	1,029,581	1,942,430	407,537	2,349,967
1969	962,697	891,531	1,854,228	874,715	2,728,943
1970	955,592	942,760	1,898,352	1,052,245	2,950,597
1971	874,058	1,319,978	2,194,036	840,719	3,034,755
1972	1,010,891	1,596,633	2,607,524	842,780	3,450,304
1973	1,206,481	1,856,354	3,062,835	1,299,276	4,362,111
1974	1,355,623	1,314,147	2,669,770	791,628	3,461,398
1975	951,139	1,089,145	2,040,284	1,146,796	3,187,080
1976	1,115,512	1,470,420	2,585,932	590,478	3,176,410
1977	1,525,733	2,144,489	3,670,222	604,463	4,274,685
1978	1,752,267	2,469,130	4,221,397	1,821,304	6,042,701
1979	1,975,434	2,392,063	4,367,497	889,324	5,156,821
1980	1,970,299	1,535,367	3,505,655	667,944	4,173,610
1981	1,336,850	1,122,958	2,459,808	798,406	3,258,214
1982	1,149,956	856,444	2,006,400	481,218	2,487,618
1983	1,277,600	1,449,000	2,726,600	763,700	3,490,300
1984	2,049,200	1,909,500	3,958,700	966,500	4,925,200
			United States		
1978	45,045,834	74,949,473	119,995,307	39,934,701	159,930,008
1979	50,205,900	74,557,500	124,763,400	43,682,500	168,445,900
1980	52,491,400	63,667,700	116,159,100	32,233,700	148,392,800
1981	60,087,700	60,164,000	120,251,700	33,227,900	153,479,600
1982	59,207,500	58,076,300	117,283,800	37,335,600	154,619,400
1983	62,284,200	93,566,600	155,850,800	37,751,800	193,602,600
1984	73,225,700	100,762,600	173,988,300	35,872,500	209,860,800

SOURCE: F. W. Dodge Division of McGraw-Hill Information Systems Company, special release.

TABLE XIV-13. NONRESIDENTIAL AND RESIDENTIAL BUILDING AWARDS IN MICHIGAN METROPOLITAN STATISTICAL AREAS: 1983 AND 1984

(In thousands of dollars)

Area	Nonresidential		Residential		Total	
	1983	1984	1983	1984	1983	1984
Ann Arbor	140,700	130,200	33,300	70,000	174,000	200,200
Battle Creek	9,700	54,600[c]	20,000	24,600	29,700	79,200
Bay City	14,800	5,900	14,400	11,700	29,200	17,600
Detroit[a]	592,500	1,165,000	614,000	892,100	120,690	2,057,600
Flint	36,000	72,600	31,200	60,300	67,200	132,900
Grand Rapids	161,300	219,800	149,500	172,900	310,800	392,700
Jackson	17,500	15,800	17,400	10,400	34,900	26,200
Kalamazoo	43,000	45,300	36,200	40,800	79,200	86,100
Lansing-E. Lansing	83,500	84,500	76,800	102,200	160,300	186,700
Muskegon	9,000	14,100	20,400	25,300	29,400	39,400
Saginaw[b]-Midland	25,700	64,900	45,700	47,900	71,400	112,800
Toledo[a]	127,200	--	89,800	--	217,000	--
Michigan	1,277,600	2,049,200	1,449,000	1,909,500	2,726,600	3,958,700
United States	62,284,200	73,225,700	93,566,600	100,762,600	155,850,800	173,988,300

SOURCE: F. W. Dodge Division of McGraw-Hill Information Systems Company, special release.

a. In 1984, Monroe County transferred from Toledo to Detroit MSA.
b. Midland County was added to Saginaw MSA in 1984.
c. March 1984, $30,000,000 office building in Calhoun County.

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buidings	Value ($1000)
Alcona	1983	60	2,139	1	60	2	52	1	25
	1984	51	1,894	1	57	0	0	2	88
	1985	84	2,734	4	466	0	0	0	0
Alger	1983	30	5,209	0	0	0	0	4	217
	1984	31	510	0	0	0	0	3	45
	1985	36	598	0	0	0	0	3	45
Allegan	1983	326	11,094	13	775	3	587	13	670
	1984	326	12,910	22	1,304	4	867	16	681
	1985	487	19,880	10	1,590	4	460	12	1,223
Alpena	1983	39	1,212	1	40	0	0	2	127
	1984	42	1,196	2	1,015	1	92	4	462
	1985	39	2,013	6	1,468	0	0	2	350
Antrim	1983	197	8,594	1	350	0	0	0	0
	1984	225	12,745	3	164	0	0	0	0
	1985	132	6,250	1	17	2	907	3	682
Arenac	1983	39	1,118	0	0	0	0	0	0
	1984	5	187	0	0	0	0	0	0
	1985	4	150	0	0	0	0	0	0
Baraga	1983	46	736	3	74	1	49	1	110
	1984	15	362	4	546	0	0	3	157
	1985	19	375	2	18	0	0	1	56
Barry	1983	160	6,005	11	253	1	30	1	25
	1984	186	7,685	5	258	0	0	4	54
	1985	181	7,583	0	0	0	0	8	439
Bay	1983	116	4,847	5	895	1	99	9	6,276
	1984	138	5,380	11	2,353	8	309	5	123
	1985	120	5,972	17	10,146	3	416	19	1,691
Benzie	1983	101	3,361	0	0	1	80	0	0
	1984	83	3,252	0	0	0	0	0	0
	1985	77	3,851	0	0	0	0	0	0
Berrien	1983	312	11,671	9	1,210	4	3,750	10	532
	1984	198	10,728	19	2,469	7	1,384	21	1,990
	1985	235	14,514	19	2,145	4	438	25	1,822

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Branch	1983	95	2,749	1	64	1	59	3	141
	1984	39	1,205	1	29	0	0	3	182
	1985	79	2,621	1	400	1	188	5	394
Calhoun	1983	130	4,760	4	592	10	1,238	8	827
	1984	180	4,604	6	1,118	5	21,755	17	1,363
	1985	80	4,742	13	13,620	5	950	19	3,033
Cass	1983	58	2,512	8	298	0	0	6	859
	1984	114	4,243	11	573	0	0	4	91
	1985	107	4,182	16	736	1	14	2	7
Charlevoix	1983	112	4,639	0	0	1	136	1	500
	1984	148	5,602	0	0	0	0	0	0
	1985	193	8,387	5	822	0	0	1	76
Cheboygan	1983	149	6,091	1	350	0	0	1	198
	1984	75	3,945	0	0	1	704	9	1,776
	1985	93	4,451	0	0	2	1,252	4	880
Chippewa	1983	19	584	0	0	0	0	0	0
	1984	16	446	0	0	0	0	1	4
	1985	71	1,776	0	0	2	122	3	288
Clare	1983	94	2,924	0	0	1	704	1	189
	1984	61	2,373	0	0	1	571	4	756
	1985	117	4,016	0	0	0	0	2	420
Clinton	1983	150	7,529	2	117	2	275	8	357
	1984	191	11,004	2	23	0	0	15	562
	1985	174	10,064	5	848	2	71	16	378
Crawford	1983	88	3,172	1	49	2	297	5	1,381
	1984	53	1,642	20	11,330	1	30	6	229
	1985	76	2,535	2	139	2	366	3	111
Delta	1983	135	4,434	5	221	2	106	2	340
	1984	96	3,753	4	149	3	72	2	89
	1985	80	3,684	8	571	1	128	11	3,742
Dickinson	1983	77	3,027	4	1,170	1	100	2	454
	1984	80	3,317	0	0	0	0	0	0
	1985	132	5,201	3	354	2	228	8	1,107

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Eaton	1983	250	13,082	4	4,249	6	2,633	6	839
	1984	324	15,633	9	543	2	22	14	1,563
	1985	541	25,110	7	2,330	8	4,087	9	3,118
Emmet	1983	117	6,398	2	380	0	0	1	39
	1984	199	9,922	2	1,277	0	0	1	68
	1985	177	9,186	6	426	5	440	3	375
Genesee	1983	687	26,543	21	4,116	44	8,202	53	6,969
	1984	901	30,781	11	14,901	41	7,226	109	17,531
	1985	1,291	46,496	35	28,056	67	14,967	102	15,304
Gladwin	1983	126	5,837	1	350	2	1,409	2	387
	1984	182	7,865	0	0	3	1,341	3	599
	1985	120	5,994	4	838	1	162	9	1,820
Gogebic	1983	69	2,047	0	0	0	0	6	605
	1984	51	1,432	2	65	0	0	3	353
	1985	32	992	1	230	0	0	1	151
Grand Traverse	1983	431	19,637	10	489	6	768	16	832
	1984	613	24,373	15	2,524	11	1,732	25	2,139
	1985	350	18,597	22	1,876	9	979	20	1,755
Gratiot	1983	32	1,366	4	626	0	0	7	146
	1984	35	1,590	2	460	3	108	6	100
	1985	96	2,852	1	12	1	140	2	6
Hillsdale	1983	112	2,654	2	121	1	189	3	195
	1984	93	2,222	1	272	0	0	1	18
	1985	85	2,153	2	115	1	136	2	53
Houghton	1983	57	1,965	0	0	1	80	7	497
	1984	141	4,472	2	150	0	0	1	55
	1985	44	2,267	1	96	0	0	7	534
Huron	1983	180	5,147	3	1,300	6	984	11	1,691
	1984	203	5,533	8	695	2	168	4	318
	1985	146	4,467	3	1,130	2	44	5	172
Ingham	1983	707	32,591	7	499	18	9,757	35	4,594
	1984	937	41,694	15	3,078	12	11,987	45	5,305
	1985	982	50,275	17	5,862	14	14,776	50	8,689

XV. MANUFACTURING

The ranking of Michigan counties according to the relative importance of manufacturing (Table XV-10) was developed on the basis of personal income accounts and employment statistics prepared by the Bureau of Economic Analysis, U.S. Department of Commerce. Personal income is discussed in the narrative material introducing Chapter VI. By and large, the BEA income and employment statistics for manufacturing are consistent with the employment figures released by the Michigan Employment Security Commission since they are based on the same monthly reports from employers.

The production of motor vehicles is of special interest because of the great importance of this industry to Michigan. The Automobile Manufacturers Association publishes a wealth of information on the industry, and Automotive News and Ward's Communications, Inc., in Detroit are leading sources of regional statistics about the industry. R.L. Polk & Company, also in Detroit, compiles information about new car and truck sales and registrations. Some of these data are reproduced in Chapter XVI.

Current Industrial Reports, published by the Bureau of the Census, contains current information about production and shipments of a great variety of manufactured items. A few of the series give details by states.

The American Iron and Steel Institute monitors monthly steel production in the United States and various centers. Its Annual Statistics Report and Iron and Steel Works Directory for the United States and Canada provide detailed information on the steel industry.

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TABLE XV-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES MANUFACTURING ESTABLISHMENTS: 1956-1985

	Michigan				United States			
	Employment	Weekly		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings	(000)	Hours	Earnings	earnings
1956	1,108.9	40.8	94.98	2.33	17,243	40.4	78.78	1.95
1957	2,083.8	40.0	97.64	2.44	17,174	39.8	81.19	2.04
1958	895.3	39.5	99.70	2.52	15,945	39.2	82.32	2.10
1959	961.0	40.9	108.71	2.66	16,675	40.3	88.26	2.19
1960	976.3	40.8	112.00	2.75	16,796	39.7	89.72	2.26
1961	887.3	40.1	112.32	2.80	16,326	39.8	92.34	2.32
1962	952.2	41.8	121.43	2.91	16,853	40.4	96.56	2.39
1963	989.6	42.5	128.27	3.02	16,995	40.5	99.23	2.45
1964	1,032.0	43.5	135.11	3.11	17,274	40.7	102.97	2.53
1965	1,112.4	44.6	143.79	3.22	18,062	41.2	107.53	2.61
1966	1,179.6	43.3	145.10	3.35	19,214	41.4	112.19	2.71
1967	1,148.8	42.0	145.78	3.47	19,447	40.6	114.49	2.82
1968	1,172.5	43.3	164.15	3.79	19,781	40.7	122.51	3.01
1969	1,203.8	42.0	166.78	3.97	20,167	40.6	129.51	3.19
1970	1,081.1	40.6	168.33	4.15	19,367	39.8	133.33	3.35
1971	1,059.2	41.0	188.19	4.59	18,623	39.9	142.44	3.57
1972	1,097.4	42.8	211.52	4.94	19,151	40.5	154.71	3.82
1973	1,178.8	43.4	228.63	5.27	20,154	40.7	166.46	4.09
1974	1,114.0	41.3	232.35	5.63	20,077	40.0	176.80	4.42
1975	983.7	40.8	250.76	6.15	18,323	39.5	190.79	4.83
1976	1,061.7	42.7	290.97	6.81	18,997	40.1	209.32	5.22
1977	1,128.4	43.3	326.79	7.55	19,682	40.3	228.90	5.68
1978	1,179.6	42.9	346.20	8.07	20,505	40.4	249.27	6.17
1979	1,160.2	41.2	360.25	8.74	21,040	40.2	269.34	6.70
1980	998.9	40.1	381.87	9.52	20,285	39.7	288.62	7.27
1981	979.0	40.5	426.27	10.53	20,170	39.8	318.00	7.99
1982	876.9	40.2	449.33	11.18	18,781	38.9	330.26	8.49
1983	880.5	42.5	494.02	11.62	18,434	40.1	354.08	8.83
1984	962.8	43.2	526.18	12.18	19,378	40.7	374.03	9.19
1985	984.1	43.1	544.78	12.64	19,314	40.5	385.97	9.53

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: Monthly), March 1986, Tables B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1986).

TABLE XV-2. EARNINGS IN MANUFACTURING ESTABLISHMENTS LOCATED IN MICHIGAN, AND THE UNITED STATES BY MAJOR INDUSTRY GROUP: 1983 AND 1985

(In millions of dollars)

Industry group		1983	1985	Percentage change
Food & kindred products	Mich.	1,147	1,268	11
	U.S.	35,920	38,560	7
Textile mill products	Mich.	54	0	-
	U.S.	12,287	12,295	-
Apparel & other textile products	Mich.	469	556	19
	U.S.	14,793	15,488	5
Paper & allied products	Mich.	566	630	11
	U.S.	18,365	20,807	13
Printing and publishing	Mich.	742	852	15
	U.S.	28,612	33,946	19
Chemicals & allied products	Mich.	1,347	1,474	9
	U.S.	33,457	36,894	10
Petroleum and coal products	Mich.	95	97	2
	U.S.	9,629	9,500	-1
Rubber & miscellaneous plastics products	Mich.	738	906	23
	U.S.	15,784	18,742	19
Leather and leather products	Mich.	55	52	-5
	U.S.	2,931	2,536	-13
TOTAL nondurable goods	Mich.	5,212	5,885	13
	U.S.	173,917	191,015	10
Lumber & wood products	Mich.	202	229	13
	U.S.	13,168	14,980	14
Furniture & fixtures	Mich.	570	721	24
	U.S.	7,708	9,250	20
Primary metal industries	Mich.	1,774	1,850	4
	U.S.	26,580	27,845	5
Fabricated metal products	Mich.	2,808	3,455	23
	U.S.	33,805	39,387	17
Machinery, except electrical	Mich.	3,552	4,199	18
	U.S.	55,834	66,235	19
Electric and electronic equipment	Mich.	825	1,074	30
	U.S.	51,327	62,377	22
Transportation equipment excl. motor vehicle	Mich.	552	626	13
	U.S.	32,334	39,116	21
Motor vehicles & equipment	Mich.	12,377	16,025	29
	U.S.	27,090	35,683	32
Stone, glass, and clay products	Mich.	456	541	19
	U.S.	14,118	15,834	12
Instruments and related products	Mich.	307	349	14
	U.S.	18,258	20,705	13
Miscellaneous manufacturing industries	Mich.	150	194	29
	U.S.	7,535	8,353	11
TOTAL durable goods	Mich.	23,573	29,264	24
	U.S.	287,765	339,765	18
TOTAL manufacturing	Mich.	28,785	35,149	22
	U.S.	461,682	530,780	15

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

D. Withheld to avoid disclosure for a single company.

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Ionia	1983	105	3,467	10	1,065	1	53	12	166
	1984	141	4,661	6	330	1	85	17	521
	1985	118	4,795	9	813	2	133	25	2,412
Iosco	1983	126	3,747	5	151	2	24	6	973
	1984	141	4,469	0	0	2	392	13	369
	1985	145	5,759	2	28	3	298	16	567
Iron	1983	24	801	1	195	1	400	1	66
	1984	40	1,187	3	637	1	10	2	445
	1985	25	1.026	4	135	0	0	0	0
Isabella	1983	172	6,172	4	177	3	111	13	550
	1984	258	9,463	5	568	3	185	9	864
	1985	163	5,571	8	637	4	398	5	859
Jackson	1983	186	7,576	10	956	8	875	11	296
	1984	225	8,492	11	677	3	121	14	1,549
	1985	166	8,028	10	603	7	1,682	15	7,293
Kalamazoo	1983	715	30,514	28	3,954	16	3,908	26	3,073
	1984	653	31,667	27	9,634	19	3,592	28	2,919
	1985	727	38,860	18	2,797	29	15,543	45	3,193
Kalkaska	1983	65	2,019	8	149	4	314	2	43
	1984	89	2,642	10	419	2	27	7	186
	1985	64	4,743	8	474	1	30	2	70
Kent[d]	1983	1,877	86,670	63	12,330	33	8,676	46	7,029
	1984	2,976	117,397	83	23,021	35	22,014	51	12,760
	1985	2,887	125,785	111	49,081	57	27,200	58	10,913
Keweenaw	1983	6	127	0	0	0	0	0	0
	1984	8	147	0	0	0	0	0	0
	1985	10	286	0	0	0	0	0	0
Lake	1983	44	2,009	0	0	0	0	0	0
	1984	51	2,661	0	0	0	0	0	0
	1985	40	1,618	0	0	0	0	0	0
Lapeer	1983	187	8,204	8	1,141	6	636	7	219
	1984	234	9,838	3	80	3	60	7	455
	1985	405	14,067	3	947	5	919	8	1,114

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Leelanau	1983	146	6,693	2	53	1	70	4	305
	1984	198	9,726	1	18	8	1,533	11	470
	1985	149	7,591	2	116	4	100	3	157
Lenawee	1983	99	3,739	7	508	4	247	7	241
	1984	205	5,640	9	602	5	798	19	457
	1985	151	6,430	17	2,811	2	690	3	63
Livingston	1983	302	15,654	5	1,354	8	1,614	10	1,487
	1984	417	20,500	12	3,612	5	870	6	2,142
	1985	641	37,389	26	26,819	6	1,189	13	1,900
Luce	1983	23	602	0	0	0	0	0	0
	1984	34	926	1	1,500	0	0	0	0
	1985	13	543	0	0	1	114	0	0
Mackinac	1983	65	1,905	2	73	1	275	4	367
	1984	93	2,343	2	145	1	150	4	307
	1985	83	2,807	3	170	1	350	2	408
Macomb	1983	2,292	93,291	64	36,993	39	7,351	62	14,415
	1984	2,838	129,925	92	48,884	32	6,760	92	25,184
	1985	4,644	210,990	163	72,801	39	13,245	128	36,163
Manistee	1983	65	2,237	3	38	1	300	1	18
	1984	66	2,681	6	366	0	0	1	13
	1985	63	2,379	10	275	0	0	6	110
Marquette	1983	97	3,114	0	0	0	0	13	862
	1984	111	3,871	1	234	12	1,373	0	0
	1985	135	5,418	3	128	3	152	1	55
Mason	1983	70	1,722	6	314	1	40	5	98
	1984	70	1,894	13	3,947	0	0	8	569
	1985	133	3,062	5	211	2	165	5	162
Mecosta	1983	117	5,209	1	60	2	270	2	176
	1984	148	6,814	1	18	0	0	0	0
	1985	120	6,148	2	52	0	0	6	375
Menominee	1983	55	1,527	3	281	0	0	5	371
	1984	63	2,465	5	281	2	236	2	175
	1985	58	2,298	11	1,304	1	40	3	206

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Midland	1983	320	18,512	5	608	3	482	8	781
	1984	327	21,835	5	540	8	3,534	19	1,045
	1985	245	19,082	10	1,874	5	2,189	18	1,264
Missaukee	1983	75	2,323	2	34	0	0	2	89
	1984	43	1,626	11	797	2	60	1	32
	1985	60	2,083	5	90	0	0	2	131
Monroe	1983	292	11,660	4	331	4	464	10	1,041
	1984	371	13,466	5	447	11	1,700	4	169
	1985	344	15,468	11	2,384	6	658	12	1,974
Montcalm	1983	160	6,786	8	5,939	4	191	3	507
	1984	147	5,528	8	1,442	8	981	8	1,307
	1985	152	5,485	5	1,203	2	196	15	1,096
Montmorency	1983	84	3,732	1	350	1	704	0	0
	1984	96	3,667	0	0	0	0	3	578
	1985	69	3,348	1	383	1	626	1	220
Muskegon	1983	239	10,297	13	954	6	633	9	830
	1984	315	14,741	23	3,646	9	1,177	26	3,332
	1985	375	17,134	22	1,995	13	1,386	33	3,376
Newaygo	1983	124	3,170	3	7,045	0	0	20	1,240
	1984	137	3,326	2	89	2	122	8	190
	1985	105	3,799	5	309	2	57	10	212
Oakland	1983	3,546	235,546	76	27,176	78	115,631	58	13,880
	1984	5.522	328,731	121	87,180	114	182,449	115	31,770
	1985	10,138	577,427	181	103,851	170	226,660	106	37,210
Oceana	1983	55	2,627	3	238	2	16	5	854
	1984	72	3,536	5	599	1	26	7	178
	1985	77	3,714	5	399	1	38	4	265
Ogemaw	1983	103	4,954	0	0	3	2,113	5	954
	1984	141	6,398	0	0	2	1,275	6	1,144
	1985	121	5,289	1	383	0	0	6	1,152
Ontonagon	1983	41	1,188	1	30	0	0	0	0
	1984	34	659	0	0	0	0	0	0
	1985	35	1,001	5	470	0	0	1	4

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Osceola	1983	88	2,818	4	188	0	0	5	54
	1984	91	2,953	9	1,937	1	170	2	21
	1985	86	2,346	9	607	0	0	4	43
Oscoda	1983	48	2,310	1	373	0	0	0	0
	1984	52	2,751	0	0	0	0	1	200
	1985	37	1,751	2	688	0	0	1	220
Otsego	1983	122	5,283	1	80	1	53	0	0
	1984	75	4,107	0	0	1	60	2	700
	1985	65	3,530	0	0	1	56	2	328
Ottawa	1983	782	34,935	33	6,872	10	2,544	21	5,440
	1984	1,023	45,817	37	15,176	10	1,468	36	4,674
	1985	1,431	62,568	26	22,830	17	3,546	30	2,369
Presque Isle	1983	130	5,448	0	0	0	0	0	0
	1984	49	2,722	0	0	0	0	1	120
	1985	53	2,767	3	67	0	0	1	25
Roscommon	1983	151	4,180	0	0	0	0	6	504
	1984	154	4,670	0	0	1	45	4	78
	1985	190	6,024	2	63	3	530	9	2,039
Saginaw	1983	213	8,239	12	959	8	1,318	24	2,628
	1984	265	11,199	15	979	8	1,488	13	2,402
	1985	302	11,538	16	2,115	12	1,555	21	5,189
St. Clair	1983	282	12,605	12	962	12	2,401	13	756
	1984	283	11,871	15	1,940	8	1,806	22	1,117
	1985	391	15,594	24	6,070	6	884	15	714
St. Joseph	1983	124	4,884	12	552	2	160	5	1,345
	1984	113	5,263	7	2,017	3	792	9	1,546
	1985	183	6,624	8	1,375	1	70	4	791
Sanilac	1983	114	4,020	1	14	1	80	12	926
	1984	104	4,052	1	1,000	1	201	9	3,274
	1985	149	5,888	3	123	0	0	7	1,455
Schoolcraft	1983	92	3,063	0	0	0	0	0	0
	1984	34	665	0	0	1	25	0	0
	1985	35	726	1	28	1	30	1	10

TABLE XIV-14. RESIDENTIAL, INDUSTRIAL, OFFICE, AND MERCANTILE CONSTRUCTION AUTHORIZED BY BUILDING PERMITS AND PUBLIC CONTRACTS IN MICHIGAN, BY COUNTY: 1983, 1984 AND 1985 (cont.)

		Residential		Industrial[a]		Offices[b]		Mercantile[c]	
County	Year	Number of units	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)	Number of buildings	Value ($1000)
Shiawassee	1983	51	2,343	4	89	0	0	2	9
	1984	96	4,242	0	0	2	110	2	129
	1985	178	6,400	1	80	2	300	1	28
Tuscola	1983	98	4,299	8	220	2	170	3	802
	1984	125	4,709	5	619	0	0	3	213
	1985	108	4,806	1	288	2	199	3	129
Van Buren	1983	211	8,031	2	137	2	77	7	505
	1984	206	9,436	5	518	1	49	5	626
	1985	169	7,646	3	318	1	49	16	2,121
Washtenaw	1983	345	29,355	18	7,436	13	14,950	4	1,789
	1984	738	43,493	29	18,225	36	19,561	7	1,248
	1985	1,478	76,495	31	16,852	16	15,738	12	5,945
Wayne	1983	1,565	82,450	52	19,188	37	10,783	91	21,482
	1984	1,986	137,169	80	53,252	60	50,064	143	31,952
	1985	3,545	179,431	138	155,888	45	48,673	164	66,380
Wexford	1983	89	2,782	0	0	1	32	1	56
	1984	65	1,708	5	271	2	141	5	50
	1985	67	2,293	3	111	9	159	4	111
MICHIGAN	1983	21,683	1,015,935	630	158,185	438	209,547	776	117,248
	1984	27,758	1,324,249	857	330,995	531	353,878	1,083	174,179
	1985	37,675	1,833,690	1,149	555,455	627	407,972	1,211	250,070

SOURCE: Bureau of the Census, special release.

a. Includes plants processing, producing, and assembling goods and materials together with affiliated buildings such as warehouses, garages, and administrative buildings. Newspaper and printing plants, central bakeries, laundry and dry cleaning plants, and ice plants fall within this definition.

b. Includes banks and professional buildings. Also the administration buildings of labor unions, chambers of commerce, and trade associations, and public administration buildings such as post offices, court houses, city halls, and federal offices.

c. Includes buildings used in buying, selling, distributing, and storing merchandise and materials or performing consumer services, that is, stores, auto and other showrooms, commercial warehouses, grain elevators, garages for storing commercial vehicles, restaurants, taverns, night clubs, bakery shops, laundry and dry cleaning shops, laundromats, frozen food lockers, beauty and barber shops, and animal hosptials.

TABLE XV-3. ANNUAL PAYROLL AND VALUE ADDED IN MICHIGAN AND UNITED STATES MANUFACTURING ESTABLISHMENTS, SELECTED YEARS: 1951-1984

(millions of dollars)

	Yearly payroll[a]		Value added by manufacture[b]	
Year	Michigan	United States[c]	Michigan	United States[c]
1951	4,604.5	54,741.5	7,858.4	102,085.8
1952	4,933.0	59,598.2	8,320.7	109,162.1
1953	5,919.4	66,492.9	9,781.6	121,659.1
1954	5,248.9	62,962.7	8,707.2	117,032.3
1955	6,083.5	69,096.6	10,690.5	135,022.5
1956	5,827.5	74,015.1	10,201.5	144,909.3
1957	5,835.5	76,314.6	10,375.4	147,838.4
1958	5,161.2	73,875.2	8,363.6	141,540.6
1959	5,855.1	81,203.6	10,534.8	161,535.8
1960	6,106.8	83,672.5	10,858.2	163,998.5
1961	5,678.2	83,677.4	10,191.7	164,281.1
1962	6,281.0	89,819.2	11,969.3	179,071.1
1963	6,950.7	99,898.8	13,090.3	192,082.9
1964	7,604.9	106,048.1	14,358.6	206,193.6
1965	8,586.1	113,972.2	16,885.6	226,939.9
1966	9,221.3	125,350.0	17,629.2	250,880.1
1967	9,357.2	132,208.4	17,241.6	261,983.8
1968	10,350.4	141,822.7	19,266.4	285,058.9
1969	11,041.6	152,765.0	20,253.0	304,440.7
1970	10,232.5	153,078.5	17,959.4	300,227.6
1971	11,128.6	156,202.8	20,270.6	314,138.4
1972	12,741.4	174,205.5	23,375.7	353,994.0
1973	14,768.3	193,324.5	27,170.4	405,583.6
1974	14,807.5	208,367.3	26,333.2	452,477.6
1975	14,100.4	209,519.0	25,084.0	442,485.2
1976	17,322.2	233,388.7	32,389.8	511,471.1
1977	20,054.0	264,013.1	37,566.0	585,165.6
1978	22,892.8	299,142.6	41,804.6	657,245.8
1982	22,223.0	379,626.5	39,118.1	824,117.7
1983	23,950.0	394,829.0	48,206.3	882,138.8
1984	27,403.2	428,628.8	53,069.0	983,560.1

SOURCE: Bureau of the Census, *1982 Census of Manufactures, Preliminary Report Summary Series, United States* (Washington, D.C.: 1984), MC82-SUM-1(P), Table 1; *1982 Census of Manufactures, Geographic Area Series, Michigan* (Washington, D.C.: 1985), MC82-A-23, Table 2A; and similar documents for previous years.

a. Includes all forms of cash compensation before deductions for Social Security, income tax, and so forth. Does not include supplements. Includes central administrative offices, auxiliaries and factories.
b. Adjusted value added for 1956-67; unadjusted value added for previous years. Unadjusted value added is derived by subtracting the cost of raw materials, parts, components, supplies, fuels, goods purchased for resale, and contract work from the value of shipments (including resales). Adjusted value added takes into account the net change in finished goods and work-in-process inventories during the year. The concept of value added is not applied to central administrative offices and auxiliaries.
c. Excludes Alaska and Hawaii prior to 1958.

TABLE XV-4. ANNUAL HOURS AND WAGES OF PRODUCTION WORKERS IN MICHIGAN AND U.S. MANUFACTURING ESTABLISHMENTS, SELECTED YEARS: 1950-1984

	Hours[a] (millions)		Wages[b] (millions of dollars)	
Year	Michigan	United States[c]	Michigan	United States[c]
1950	1,769.2	23,716.5	3,112.9	34,600.0
1951	1,761.2	25,263.8	3,397.4	40,654.8
1952	1,729.5	25,617.6	3,587.3	43,763.6
1953	1,987.3	27,065.6	4,327.1	48,979.1
1954	1,650.3	24,334.1	3,661.0	44,590.5
1955	1,912.4	25,898.3	4,365.1	49,217.9
1956	1,686.3	26,088.5	4,018.6	52,040.8
1957	1,592.6	25,208.0	3,946.7	52,569.0
1958	1,204.1	22,679.2	3,184.8	49,605.2
1959	1,388.1	24,443.6	3,769.7	54,714.1
1960	1,412.5	24,174.4	3,977.4	55,555.5
1961	1,256.4	23,289.4	3,597.8	54,764.6
1962	1,400.9	24,269.5	4,124.6	59,134.1
1963	1,473.9	24,509.4	4,521.0	62,090.8
1964	1,564.6	24,510.3	4,948.8	65,838.9
1965	1,721.7	26,567.8	5,698.9	71,361.5
1966	1,775.7	28,102.5	6,066.7	78,256.4
1967	1,669.2	27,837.6	6,008.0	81,393.6
1968	1,744.3	28,156.8	6,777.4	87,480.4
1969	1,743.1	28,599.8	7,154.9	93,459.6
1970	1,468.1	26,669.3	6,332.4	91,609.0
1971	1,463.5	25,265.9	6,965.4	93,231.3
1972	1,582.6	26,699.2	8,094.2	105,501.8
1973	1,736.4	28,096.9	9,545.3	118,332.6
1974	1,532.6	27,239.3	9,101.2	124,983.2
1975	1,308.4	24,069.6	8,512.1	121,429.0
1976	1,503.2	25,354.2	10,792.9	137,565.4
1977	1,626.3	26,686.7	12,720.6	157,163.7
1978	1,671.5	27,681.8	14,240.9	176,446.6
1982	1,090.5	23,538.3	12,504.9	204,787.2
1983	1,172.4	23,599.2	13,914.9	212,265.7
1984	1,320.0	24,597.2	16,279.3	231,975.9

SOURCE: Bureau of the Census, *1982 Census of Manufactures, Preliminary Report Summary Series, United States* (Washington, D.C.: 1984), MC82-SUM-1(P), Table 1; *1982 Census of Manufactures, Geographic Area Series, Michigan* (Washington, D.C.: 1985), MC82-A-23, Table 2A; and similar documents for previous years.

a. Hours worked or paid for at the plant, including actual overtime hours. Excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Data not available for Michigan prior to 1950.

b. Includes all forms of compensation before deductions for Social Security, income tax, and so forth.

c. Excludes Alaska and Hawaii prior to 1958.

TABLE XV-5. MANUFACTURERS' EXPENDITURES FOR NEW PLANT AND NEW EQUIPMENT IN MICHIGAN AND THE UNITED STATES FOR SELECTED YEARS: 1955-1984

(Millions of dollars)

	Michigan			United States[a]		
Year	New structures and additions to plant	New machinery and equipment	Total	New structures and additions to plant	New machinery and equipment	Total
1955	197	609	806	2,426	5,808	8,233
1956	232	783	1,015	3,472	7,762	11,233
1957	129	566	695	3,865	8,279	12,144
1958	111	354	465	3,235	6,308	9,544
1959	102	430	531	2,582	6,558	9,140
1960	134	522	656	2,818	7,279	10,098
1961	110	453	563	2,749	7,031	9,780
1962	115	441	556	2,731	7,705	10,436
1963	171	591	762	2,966	8,404	11,370
1964	224	807	1,031	3,269	10,025	13,294
1965	n.a.	n.a.	1,453	4,186	12,429	16,615
1966	n.a.	n.a.	1,489	5,230	15,006	20,236
1967	336	1,024	1,360	5,714	15,789	21,503
1968	n.a.	n.a.	1,170	5,294	15,319	20,613
1969	n.a.	n.a.	1,372	5,806	16,485	22,291
1970	n.a.	n.a.	1,301	5,756	16,409	22,164
1971	n.a.	n.a.	1,202	5,342	15,599	20,941
1972	n.a.	n.a.	2,071	5,370	18,707	24,078
1973	n.a.	n.a.	1,998	6,016	20,958	26,973
1974	326	2,524	2,851	8,209	27,337	35,546
1975	307	1,956	2,263	n.a.	n.a.	37,262
1976	301	2,335	2,636	n.a.	n.a.	40,545
1977	475	3,364	3,739	8,606	40,036	47,459
1978	626	4,117	4,743	10,186	44,659	55,244
1982	519.0	2,994	3,503	n.a.	n.a.	74,562
1983	n.a.	n.a.	2,547	n.a.	n.a.	61,920
1984	n.a.	n.a.	4,239	n.a.	n.a.	75,242

SOURCE: Bureau of the Census, *1982 Census of Manufactures, Preliminary Report Summary Serires, United States* (Washington, D.C.: 1984), MC82-SUM-1 (P) Table 1; *1982 Census of Manufactures, Geographic Area Series, Michigan* (Washington, D.C.: 1985), MC82-A-23, Table 2A; and similar documents for previous years.

a. Excludes Alaska and Hawaii prior to 1958.
n.a.: Data not available.

TABLE XV-10. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN MANUFACTURING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percentage	
County	1974	1984	County	1974	1984
Genesee	54.75	57.94	Cheboygan	26.83	28.42
Midland	65.07	56.79	Benzie	16.64	28.29
Macomb	53.98	51.77	Livingston	23.65	27.63
Montcalm	43.38	51.70	Baraga	38.41	27.60
Saginaw	49.31	50.67	Eaton	30.55	27.09
St. Joseph	52.71	50.40	Gladwin	19.88	25.67
Ottawa	47.76	49.03	Otsego	26.08	25.64
Allegan	41.03	48.95	Alcona	8.00	25.57
Osceola	52.02	47.80	Iron	14.06	25.48
Muskegon	49.38	47.23	Dickinson	20.68	25.37
Lenawee	51.16	46.20	Antrim	34.46	25.15
Berrien	52.61	45.98	Grand Traverse	13.96	24.53
Manistee	42.57	45.03	Schoolcraft	15.97	23.46
Alger	39.08	44.68	Clinton	18.85	23.07
Hillsdale	42.23	44.25	Lapeer	23.51	23.05
Ionia	35.87	44.08	Tuscola	20.70	20.71
Kalamazoo	43.47	42.69	Ogemaw	18.96	20.26
Cass	42.03	42.33	Arenac	15.18	19.80
Menominee	42.14	42.22	Kalkaska	12.80	17.20
Wayne	43.61	41.97	Oscoda	18.14	17.03
Washtenaw	40.46	41.42	Oceana	10.90	16.88
Wexford	34.41	40.38	Mecosta	15.25	15.24
Kent	37.00	39.38	Clare	12.40	14.73
Calhoun	45.56	39.29	Emmet	16.11	13.98
Sanilac	27.56	39.10	Isabella	7.88	12.55
Mason	35.71	38.27	Keweenaw	29.25	11.10
Bay	35.39	37.74	Iosco	8.47	11.02
Barry	46.52	37.60	Crawford	16.20	10.46
Delta	34.45	37.56	Gogebic	23.37	9.30
Branch	31.73	37.45	Roscommon	8.51	8.56
Gratiot	31.66	36.89	Chippewa	2.20	8.08
Alpena	38.31	34.65	Montmorency	28.68	7.51
Ingham	31.94	34.59	Missaukee	2.51	7.16
Newaygo	33.83	34.51	Houghton	8.68	5.75
Charlevoix	36.07	34.21	Leelanau	6.44	5.20
Shiawassee	33.33	33.29	Lake	12.61	4.24
Jackson	40.11	31.48	Presque Isle	2.96	4.23
Monroe	39.59	31.40	Mackinac	4.93	3.95
Huron	19.53	30.98	Luce	7.40	2.53
Oakland	33.58	30.66	Marquette	3.89	2.17
Ontonagon	10.34	30.53			
St. Clair	31.68	30.05	Michigan	41.41	40.22
Van Buren	34.97	28.59	United States	26.35	23.79

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE XV-6. WEEKLY HOURS AND EARNINGS OF MANUFACTURING PRODUCTION WORKERS IN SELECTED MICHIGAN LABOR MARKETS: 1983-1985

Area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	1983	1984	1985	1983	1984	1985	1983	1984	1985
Ann Arbor	$515.97	$594.74	596.74	43.2	45.4	44.7	$ 11.94	$ 13.10	$ 13.35
Battle Creek	490.90	522.50	549.67	41.1	41.7	41.8	11.95	12.53	13.15
Bay City	431.45	443.73	a	42.3	42.1	a	10.21	10.54	a
Benton Harbor	388.90	399.31	383.10	42.1	42.3	39.7	9.23	9.44	9.65
Detroit	526.53	568.01	588.26	42.8	44.1	43.9	12.29	12.88	13.40
Flint	595.76	629.82	666.67	44.6	44.7	45.6	13.33	14.09	14.62
Grand Rapids	411.20	430.76	435.01	41.3	41.7	41.0	9.97	10.33	10.61
Jackson	404.22	416.09	416.58	41.5	42.2	41.7	9.74	9.86	9.99
Kalamazoo-Portage	453.57	476.94	510.73	41.6	41.8	43.1	10.90	11.41	11.85
Lansing-East Lansing	570.26	610.01	620.76	43.4	44.3	42.9	13.13	13.77	14.47
Muskegon-Muskegon Heights-Norton Shores	416.07	443.22	453.69	40.0	40.7	40.4	10.41	10.89	11.23
Saginaw[b]	581.57	625.66	618.11	42.7	43.6	43.9	13.61	14.35	14.08
Upper Peninsula	345.62	357.28	358.59	40.5	40.6	38.6	8.54	8.80	9.29
Michigan	494.02	526.18	544.78	42.5	43.2	43.1	11.62	12.18	12.64

SOURCE: Michigan Employment Security Commission, special release.

NOTE: Dollar figures include cash earnings, before payroll deductions, and exclude fringe benefits such as company paid health and welfare premiums and employer contributions to Social Security Trust Funds.

a. Included with Saginaw.

b. Includes Bay City and Midland.

TABLE XV-7. HOURS AND EARNINGS OF MANUFACTURING PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES, BY INDUSTRY GROUP: 1985

Industry group	Michigan			United States		
	Average weekly hours	Average hourly earnings	Average weekly earnings	Average weekly hours	Average hourly earnings	Average weekly earnings
Durable goods	43.5	$13.20	$574.20	41.2	$10.10	$416.12
Lumber and wood products	37.5	7.98	299.25	39.9	8.22	327.98
Furniture and fixtures	41.3	9.59	396.07	39.4	7.17	282.50
Stone, clay, and glass products	43.9	11.55	507.04	41.9	9.84	412.30
Primary metal products	42.2	12.13	511.89	41.5	11.68	484.72
Fabricated metal products	42.9	12.56	538.82	41.3	9.70	400.61
Nonelectrical machinery	43.3	12.59	545.15	41.5	10.29	427.04
Electrical machinery	40.9	10.62	434.36	40.6	9.47	384.48
Transportation equipment	44.8	14.81	663.49	42.6	12.72	541.87
Motor vehicle and equipment	44.9	15.01	673.95	43.5	13.42	583.77
Nondurable goods	41.6	10.42	433.47	39.6	8.71	344.92
Food and kindred products	41.0	10.25	420.25	40.0	8.57	342.80
Textile mill products & apparel	43.2	13.18	569.38	37.7	6.11	231.15
Paper and allied products	44.6	11.51	513.35	43.1	10.82	466.34
Printing and publishing	37.6	9.60	360.96	37.8	9.71	367.04
Chemicals and allied products	41.9	12.27	514.11	41.9	11.56	484.36
TOTAL	43.1	12.64	544.78	40.5	9.53	385.97

SOURCE: Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: March 1986), vol. 32, no. 3, Table C-2; Supplement to Employment and Earnings (Washington, D.C.: June 1986); and Michigan Employment Security Commission, special release.

TABLE XV-8. WEEKLY HOURS OF MANUFACTURING PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES, MONTHLY: 1973-1985

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual average
						Michigan							
1973	43.7	44.1	43.4	44.6	43.8	44.0	43.4	41.9	43.0	43.1	42.1	43.5	43.4
1974	40.9	40.8	41.2	38.6	41.8	41.9	41.8	41.5	42.2	42.2	40.2	41.8	41.2
1975	30.9	40.8	41.2	38.6	41.8	41.9	41.8	41.5	42.2	42.2	40.2	41.8	41.2
1975	39.8	39.5	39.4	39.8	39.7	40.3	40.7	40.8	41.6	41.0	41.1	44.4	40.7
1976	41.3	42.2	42.6	40.7	43.1	43.7	43.2	42.6	43.0	42.0	43.7	44.1	42.7
1977	42.2	42.0	43.2	43.2	43.6	44.1	43.5	42.5	43.5	43.2	43.4	45.2	43.3
1978	41.8	41.6	42.5	42.8	42.6	42.9	42.9	42.5	43.4	43.5	43.6	45.9	43.0
1979	42.5	42.9	43.1	37.3	42.2	41.8	41.1	40.5	40.6	41.0	39.2	42.0	41.2
1980	39.9	39.8	40.2	39.6	39.4	39.4	39.0	39.4	40.0	40.9	40.8	42.3	40.1
1981	41.1	39.2	41.1	40.8	41.8	41.8	40.3	40.6	38.6	40.3	39.7	40.5	40.5
1982	38.8	40.1	39.9	40.4	40.9	41.6	40.6	40.1	38.2	39.8	40.7	41.3	40.2
1983	41.1	41.4	41.7	42.4	42.1	42.4	42.1	42.1	43.5	43.3	43.8	43.8	42.5
1984	43.9	43.4	43.3	43.8	43.2	43.4	42.2	42.3	43.1	43.3	41.7	44.5	43.2
1985	43.8	41.5	42.9	43.3	43.1	43.0	42.6	42.7	45.5	43.5	42.4	44.5	43.1
						United States							
1973	39.9	40.5	40.7	40.7	40.7	40.9	40.6	40.5	41.0	40.7	40.9	41.2	40.7
1974	40.0	40.1	40.2	39.1	40.3	40.4	40.0	40.1	40.3	40.1	39.7	39.9	40.0
1975	38.7	38.5	38.7	38.9	39.0	39.5	39.2	39.7	40.2	40.0	40.1	40.9	39.5
1976	40.0	40.0	40.1	39.2	40.3	40.5	40.1	40.1	40.1	40.1	40.3	40.7	40.1
1977	39.1	39.9	40.2	40.1	40.4	40.8	40.1	40.3	40.7	40.6	40.7	41.1	40.3
1978	39.2	39.6	40.4	40.4	40.4	40.8	40.3	40.4	40.7	40.6	40.9	41.4	40.4
1979	40.1	40.2	40.6	38.9	40.1	40.4	39.9	40.0	40.3	40.3	40.4	40.9	40.2
1980	39.8	39.8	39.8	39.4	39.3	39.4	38.8	39.4	39.8	39.8	40.2	40.8	39.7
1981	39.9	39.5	39.9	39.7	40.1	40.2	39.6	39.9	39.5	39.7	39.7	39.9	39.8
1982	37.1	39.2	39.1	38.7	39.0	39.3	38.9	39.0	38.9	39.0	39.3	39.7	38.9
1983	39.2	38.8	39.6	39.8	39.9	40.3	40.0	40.2	40.8	40.7	40.8	41.2	40.1
1984	40.6	40.7	40.7	40.9	40.7	40.8	40.3	40.4	40.8	40.5	40.7	41.2	40.7
1985	40.3	39.7	40.4	40.1	40.3	40.7	40.1	40.5	40.8	40.8	40.9	41.7	40.5

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: monthly), Table C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1985).

TABLE XV-9. WEEKLY EARNINGS OF MANUFACTURING PRODUCTION WORKERS IN MICHIGAN AND THE UNITED STATES, MONTHLY: 1973-1985

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual average
						Michigan							
1973	225.67	228.97	223.55	232.95	228.07	230.43	227.24	218.13	226.44	228.30	223.34	235.86	228.63
1974	220.53	220.52	223.96	206.93	231.70	235.44	235.63	234.89	244.68	248.09	234.65	247.33	232.03
1975	230.80	229.38	233.05	237.17	238.08	245.19	249.78	252.51	261.62	261.79	262.96	291.71	290.18
1976	270.80	278.94	284.99	267.03	292.61	298.56	292.64	290.70	299.28	289.29	302.93	323.83	290.97
1977	308.48	302.02	318.30	318.21	322.99	330.66	327.34	318.33	331.43	338.39	339.78	356.85	326.27
1978	326.92	323.23	336.22	340.52	340.33	344.23	345.86	340.26	361.00	367.92	371.25	394.24	349.50
1979	363.89	369.71	374.54	320.15	369.50	363.74	361.15	348.75	354.80	365.15	347.82	380.77	359.72
1980	362.17	365.20	375.50	367.60	362.24	369.57	369.25	371.18	386.55	407.85	407.46	432.00	381.87
1981	419.01	398.14	422.52	420.88	437.09	441.60	423.64	426.77	413.31	438.41	431.40	443.67	426.27
1982	425.24	440.32	443.43	449.72	460.08	472.97	461.20	447.94	431.09	441.31	454.00	466.11	449.33
1983	468.59	472.71	476.28	488.02	483.84	493.49	489.86	482.99	511.00	508.70	520.19	524.35	494.02
1984	527.24	518.63	522.20	528.23	519.70	528.61	514.42	513.94	526.68	529.99	517.91	562.48	526.18
1985	552.76	524.56	538.39	546.45	542.20	543.09	536.76	534.18	555.06	549.84	538.06	570.04	544.78
						United States							
1973	159.60	161.60	162.80	164.02	164.84	166.05	166.05	165.65	170.15	169.31	171.37	174.69	166.46
1974	169.60	170.02	171.25	166.96	175.71	178.16	177.60	179.25	183.37	184.06	183.02	186.73	176.80
1975	181.02	180.95	183.44	184.78	186.03	189.60	188.94	192.15	197.38	196.80	198.90	205.73	190.79
1976	201.60	202.40	204.11	199.92	207.55	209.79	209.32	210.53	214.13	213.33	216.81	222.22	209.32
1977	215.05	218.65	221.90	222.96	226.24	230.52	228.17	229.31	235.65	236.29	238.10	243.72	228.90
1978	234.02	236.81	242.80	244.02	245.23	249.29	249.05	249.27	256.00	257.00	261.35	268.27	249.43
1979	260.65	262.51	266.34	254.80	265.86	269.47	268.13	268.00	274.04	274.85	277.55	285.48	269.34
1980	277.41	278.60	281.39	279.74	280.60	284.07	282.85	288.01	295.71	298.50	305.52	314.16	288.62
1981	308.43	306.13	311.62	312.84	317.59	320.39	317.59	320.40	322.32	323.95	325.54	329.97	318.00
1982	312.38	326.93	327.27	325.85	329.55	334.05	332.60	331.89	334.15	333.84	338.37	344.60	330.65
1983	341.04	338.72	345.71	348.25	349.92	354.24	353.60	352.96	362.71	362.23	366.38	372.86	354.08
1984	369.05	369.15	370.37	373.01	371.18	373.32	370.36	370.06	377.40	374.63	379.32	387.69	374.03
1985	380.43	375.17	382.18	380.95	382.45	387.46	382.96	384.35	390.46	390.05	393.87	406.16	385.97

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings (Washington, monthly), Table C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1986).

TABLE XV-11. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN MANUFACTURING: 1983-1984

County	Percentage change 1974-1984	Percentage change 1983-1984	County	Percentage change 1974-1984	Percentage change 1983-1984
Grand Traverse	412	76	Allegan	164	14
Huron	156	53	Lenawee	52	14
Antrim	27	51	Houghton	37	13
Oscoda	47	47	Wayne	53	13
Ionia	145	40	St. Joseph	105	13
Oceana	158	39	Mecosta	105	13
Chippewa	354	39	Manistee	118	12
Alcona	612	38	Alger	114	12
Wexford	184	32	Iosco	141	12
Roscommon	127	29	Kalamazoo	126	12
Benzie	258	29	Leelanau	11	12
Oakland	144	27	Branch	123	12
Gladwin	173	27	Newaygo	116	12
Clinton	165	27	Emmet	87	11
Missaukee	420	26	Berrien	39	10
Livingston	220	25	Alpena	64	10
Macomb	101	24	Midland	77	10
Mason	100	24	Bay	84	10
Eaton	87	23	Montcalm	156	10
Shiawassee	77	22	Isabella	252	9
Washtenaw	170	21	Mackinac	65	9
Dickinson	141	21	Ontonagon	126	7
Menominee	118	20	Jackson	32	7
Ottawa	186	20	Baraga	19	7
Otsego	179	19	Monroe	59	6
St. Clair	98	19	Ingham	167	6
Sanilac	120	19	Schoolcraft	193	6
Kalkaska	420	18	Presque Isle	154	4
Hillsdale	112	18	Charlevoix	94	4
Cass	115	18	Cheboygan	109	4
Barry	54	18	Calhoun	53	4
Muskegon	80	17	Ogemaw	134	3
Van Buren	41	17	Delta	109	1
Tuscola	52	17	Luce	-26	0
Arenac	128	16	Iron	250	-1
Genesee	142	16	Marquette	10	-5
Crawford	40	16	Montmorency	-59	-10
Clare	159	16	Gogebic	-41	-12
Saginaw	100	16	Keweenaw	-64	(D)
Kent	153	15	Lake	-47	(D)
Gratiot	84	15			
Lapeer	103	15	Michigan	93	16
Osceola	76	15	United States	116	11

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-12. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN NON-DURABLE GOODS MANUFACTURING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percentage	
County	1974	1984	County	1974	1984
Midland	64.14	56.05	Alpena	12.01	4.40
Alger	33.18	41.03	Gladwin	0.86	4.37
Allegan	17.66	29.37	Tuscola	3.35	4.21
Osceola	23.22	29.28	Jackson	6.78	3.96
Newaygo	28.74	28.12	Dickinson	2.91	3.51
Delta	12.46	27.78	Monroe	7.98	3.49
Manistee	27.56	27.49	Shiawassee	6.34	3.37
Kalamazoo	23.18	25.05	Cass	1.98	3.21
Calhoun	20.74	23.84	Leelanau	2.84	3.15
Ontonagon	4.39	22.56	Oakland	2.39	2.93
Sanilac	11.66	19.97	Arenac	1.13	2.92
Schoolcraft	12.01	19.22	Saginaw	2.78	2.65
Benzie	(D)	18.73	Antrim	1.48	2.65
Gratiot	17.77	18.47	Emmet	1.20	2.21
St. Joseph	15.00	16.79	Ingham	2.25	1.87
Cheboygan	12.89	16.69	Mackinac	1.41	1.80
Mason	10.79	16.13	Houghton	2.82	1.68
Wexford	8.29	15.00	Missaukee	0.65	1.45
Baraga	16.37	14.05	Gogebic	3.04	1.41
Lenawee	10.20	13.66	Chippewa	0.90	1.39
Hillsdale	5.67	13.44	Genesee	2.02	1.34
St. Clair	10.93	12.92	Iron	1.65	1.14
Lapeer	8.72	11.65	Isabella	1.31	1.11
Kent	8.51	11.07	Marquette	1.84	0.79
Ottawa	8.60	10.98	Alcona	(D)	0.76
Bay	5.73	10.93	Roscommon	1.47	0.72
Van Buren	10.18	10.27	Clinton	0.59	0.40
Menominee	8.20	9.75	Charlevoix	3.22	(D)
Clare	3.49	8.06	Crawford	1.61	(D)
Macomb	7.51	8.03	Iosco	0.39	(D)
Montcalm	6.10	7.81	Kalkaska	(D)	(D)
Berrien	7.95	7.63	Keweenaw	(D)	(D)
Grand Traverse	7.07	7.38	Lake	(D)	(D)
Ionia	8.52	7.12	Luce	0.58	(D)
Muskegon	6.21	6.69	Mecosta	9.35	(D)
Huron	4.54	6.57	Montmorency	6.50	(D)
Livingston	3.69	6.55	Ogemaw	0.33	(D)
Barry	1.84	6.16	Oscoda	(D)	(D)
Branch	3.40	5.60	Otsego	1.04	(D)
Eaton	2.29	5.21	Presque Isle	0.58	(D)
Wayne	5.56	5.15			
Oceana	3.76	4.89	Michigan	6.65	7.01
Washtenaw	3.46	4.72	United States	9.51	8.69

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-13. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN NON-DURABLE GOODS MANUFACTURING: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Ionia	67	51	Monroe	-12	8
Oceana	117	42	Osceola	141	8
Ottawa	256	34	Muskegon	103	7
Antrim	210	29	Marquette	-15	7
Gladwin	970	27	Ingham	106	6
Branch	211	26	Menominee	158	6
Barry	541	26	Isabella	87	6
Mackinac	164	26	Lenawee	125	6
Wexford	337	25	Wayne	47	6
Houghton	23	24	Berrien	53	5
Baraga	42	23	Allegan	269	5
Oakland	229	23	Schoolcraft	219	5
Huron	134	22	Gratiot	64	5
Macomb	124	22	Calhoun	103	2
Sanilac	166	21	Clinton	47	2
Arenac	354	21	Missaukee	307	1
Clare	404	21	Gogebic	-32	1
Livingston	386	19	Leelanau	53	-1
St. Joseph	140	17	Alpena	-33	-1
Kent	209	17	Cheboygan	156	-8
Grand Traverse	205	17	Saginaw	86	-8
Washtenaw	260	16	Jackson	-2	-18
Lapeer	176	16	Alcona	(D)	-19
Eaton	379	14	Dickinson	136	-26
Emmet	298	14	Iron	33	-27
St. Clair	147	13	Cass	246	-33
Bay	229	13	Roscommon	11	-48
Ontonagon	293	12	Charlevoix	(D)	(D)
Chippewa	90	12	Crawford	(D)	(D)
Kalamazoo	149	12	Iosco	(D)	(D)
Alger	132	12	Kalkaska	(D)	(D)
Hillsdale	381	12	Keweenaw	(D)	(D)
Shiawassee	-6	11	Lake	(D)	(D)
Tuscola	91	11	Luce	(D)	(D)
Genesee	52	11	Mecosta	(D)	(D)
Manistee	106	10	Montmorency	(D)	(D)
Delta	327	10	Ogemaw	(D)	(D)
Midland	77	10	Oscoda	(D)	(D)
Newaygo	108	10	Otsego	(D)	(D)
Montcalm	174	9	Presque Isle	(D)	(D)
Benzie	(D)	9			
Van Buren	74	9	Michigan	109	11
Mason	179	8	United States	118	8

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-14. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN DURABLE GOODS MANUFACTURING AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

County	Percentage 1974	Percentage 1984	County	Percentage 1974	Percentage 1984
Genesee	52.72	56.60	Grand Traverse	6.89	17.14
Saginaw	46.54	48.02	St. Clair	20.76	17.13
Montcalm	37.27	43.89	Oscoda	(D)	16.89
Macomb	46.47	43.75	Arenac	14.05	16.88
Muskegon	43.17	40.54	Tuscola	17.35	16.50
Cass	40.04	39.11	Calhoun	24.82	15.44
Berrien	44.66	38.35	Baraga	22.04	13.56
Ottawa	39.16	38.05	Oceana	7.14	11.99
Ionia	27.35	36.97	Emmet	14.91	11.77
Wayne	38.06	36.82	Cheboygan	13.93	11.74
Washtenaw	37.00	36.70	Isabella	6.57	11.44
St. Joseph	37.71	33.60	Lapeer	14.79	11.40
Ingham	29.70	32.71	Keweenaw	29.25	11.10
Lenawee	40.96	32.54	Delta	21.98	9.78
Menominee	33.94	32.47	Benzie	(D)	9.56
Branch	28.33	31.85	Ontonagon	5.96	7.98
Barry	44.68	31.44	Gogebic	20.33	7.89
Hillsdale	36.57	30.81	Roscommon	7.04	7.84
Alpena	26.30	30.24	Chippewa	1.29	6.69
Shiawassee	26.98	29.92	Clare	8.91	6.67
Kent	28.50	28.31	Newaygo	5.09	6.39
Monroe	31.61	27.90	Missaukee	1.86	5.71
Oakland	31.19	27.73	Schoolcraft	3.96	4.24
Jackson	33.33	27.52	Houghton	5.86	4.08
Bay	29.66	26.82	Alger	5.90	3.65
Wexford	26.12	25.39	Mackinac	3.53	2.15
Alcona	(D)	24.81	Leelanau	3.60	2.04
Huron	14.99	24.41	Marquette	2.06	1.38
Iron	12.41	24.35	Midland	0.93	0.74
Clinton	18.27	22.67	Charlevoix	32.84	(D)
Antrim	32.97	22.50	Crawford	14.58	(D)
Mason	24.92	22.14	Iosco	8.08	(D)
Eaton	28.26	21.88	Kalkaska	(D)	(D)
Dickinson	17.77	21.85	Lake	(D)	(D)
Gladwin	19.01	21.30	Luce	6.82	(D)
Livingston	19.96	21.08	Mecosta	5.91	(D)
Allegan	23.38	19.58	Montmorency	22.18	(D)
Sanilac	15.90	19.13	Ogemaw	18.63	(D)
Osceola	28.80	18.52	Otsego	25.05	(D)
Gratiot	13.89	18.42	Presque Isle	2.38	(D)
Van Buren	24.79	18.32			
Kalamazoo	20.30	17.64	Michigan	34.76	33.21
Manistee	15.01	17.54	United States	16.84	15.10

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-15. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN DURABLE GOODS MANUFACTURING: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Grand Traverse	626	126	Sanilac	87	16
Benzie	(D)	99	Arenac	110	16
Huron	163	64	Kent	136	15
Antrim	19	54	Wayne	53	14
Roscommon	152	50	Lapeer	59	13
Oscoda	(D)	47	Alpena	109	12
Chippewa	540	46	Jackson	39	12
Alcona	(D)	41	Kalamazoo	100	12
Leelanau	-22	39	St. Joseph	91	11
Mason	66	39	Berrien	37	11
Oceana	180	38	Emmet	70	11
Ionia	170	38	Montcalm	153	10
Wexford	135	36	Clare	63	10
Dickinson	141	35	Houghton	44	10
Missaukee	460	35	Isabella	285	10
Allegan	86	31	Branch	113	9
Oakland	138	27	Bay	56	9
Cheboygan	66	27	Schoolcraft	114	7
Clinton	169	27	Calhoun	10	6
Gladwin	137	27	Ingham	172	6
Livingston	190	27	Monroe	77	6
Gratiot	109	26	Iron	278	1
Osceola	23	26	Mackinac	26	-2
Cass	109	25	Ontonagon	2	-6
Menominee	108	25	Baraga	1	-7
Eaton	63	25	Marquette	33	-11
Macomb	97	25	Gogebic	-43	-14
Shiawassee	97	24	Delta	-15	-19
St. Clair	72	23	Charlevoix	(D)	(D)
Van Buren	27	22	Crawford	(D)	(D)
Washtenaw	162	22	Iosco	(D)	(D)
Hillsdale	71	21	Kalkaska	(D)	(D)
Newaygo	166	20	Keweenaw	-64	(D)
Muskegon	77	19	Lake	(D)	(D)
Tuscola	45	18	Luce	(D)	(D)
Lenawee	34	18	Mecosta	(D)	(D)
Saginaw	100	17	Montmorency	(D)	(D)
Alger	16	17	Ogemaw	(D)	(D)
Ottawa	171	17	Otsego	(D)	(D)
Genesee	145	16	Presque Isle	(D)	(D)
Barry	34	16			
Manistee	141	16	Michigan	90	17
Midland	63	16	United States	114	13

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XV-17. PRODUCTION OF RAW STEEL IN MICHIGAN AND THE UNITED STATES: 1951-1985

(000 short tons)

Year	Michigan	United States	Michigan as percentage of United States
1951	4,829	105,200	4.6
1952	4,552	93,200	4.9
1953	5,142	111,482	4.6
1954	4,224	88,316	4.8
1955	5,999	116,858	5.1
1956	6,231	114,999	5.4
1957	6,220	112,630	5.5
1958	4,567	85,149	5.4
1959	5,634	95,361	6.0
1960	6,529[a]	98,812	6.6
1961	6,644[a]	97,417	6.8
1962	7,126[a]	98,221	7.3
1963	8,447[a]	109,011	7.7
1964	9,435	126,460	7.5
1965	8,990	131,237	6.9
1966	10,004	132,902	7.5
1967	9,247	126,323	7.3
1968	9,220	127,509	7.2
1969	10,039	141,008	7.1
1970	9,581	130,940	7.3
1971	9,069	120,443	7.5
1972	9,380	133,241	7.0
1973	10,945	150,799	7.3
1974	10,459	145,720	7.2
1975	9,093	116,642	7.8
1976	10,382	128,000	8.1
1977	10,051	125,333	8.0
1978	10,789	137,031	7.9
1979	10,922	136,341	8.0
1980	7,877	111,835	7.0
1981	8,943	120,828	7.4
1982	6,075	74,577	8.1
1983	7,262	84,615	8.6
1984[b]	7,754	92,528	8.4
1985[b]	7,297	88,259	8.3

SOURCE: Bureau of the Census, Current Industrial Reports, Iron and Steel Foundries and Steel Ingot Production (Washington, D.C.: 1984), M33A(83)-13, Table 10, and similar reports for previous years.

a. Includes Wisconsin.

b. Tonnage statistics released by the American Iron and Steel Institute.

TABLE XV-18. SHIPMENTS OF SELECTED STEEL MILL PRODUCTS INCLUDING INTERPLANT TRANSFERS, MICHIGAN AND THE UNITED STATES: 1971-1984

(000 short tons)

Year		Hot-rolled sheet and strip[a]	Steel pipe and tube	Cold-rolled sheet and strip	Cold-rolled bar and shape	Total[b]
1971	Michigan	n.a.	171	3,283	n.a.	8,750
	United States	32,632	8,626	17,274	1,585	108,329
1972	Michigan	n.a.	224	3,439	n.a.	9,000
	United States	36,564	8,708	18,080	1,907	114,498
1973	Michigan	5,566	279	3,896	n.a.	10,654
	United States	42,758	10,616	22,719	2,373	136,965
1974	Michigan	5,724	247	3,289	n.a.	10,138
	United States	41,382	11,790	20,938	2,503	137,786
1975	Michigan	4,828	241	2,386	141	8,110
	United States	1,131	9,903	14,783	1,639	99,862
1976	Michigan	5,816	279	3,057	163	9,619
	United States	37,602	7,915	20,265	1,739	112,257
1977	Michigan	5,603	229	2,944	165	9,343
	United States	37,525	9,170	19,490	1,919	112,075
1978	Michigan	6,110	248	3,173	171	10,287
	United States	38,903	10,400	19,734	2,112	120,890
1979	Michigan	n.a.	248	2,837	188	12,123
	United States	39,484	10,547	19,529	2,284	124,074
1980	Michigan	n.a.	182	2,176	n.a.	7,817
	United States	32,857	10,983	15,081	1,668	104,075
1981	Michigan	5,240	205	2,117	164	8,252
	United States	34,779	12,765	16,657	1,806	109,761
1982	Michigan	3,726	162	1,462	89	5,693
	United States	26,455	6,670	12,499	1,071	73,684
1983	Michigan	4,184	183	1,891	n.a.	6,647
	United States	31,792	5,440	15,710	1,316	83,774
1984	Michigan	4,534	213	2,061	163	7,260
	United States	33,292	7,031	16,483	1,631	91,086

SOURCE: Bureau of the Census, Current Industrial Reports, Steel Mill Products (Washington, D.C., 1985), MA 33B(83)-1, Table 7; and similar reports for previous years.

a. Includes tin mill products.
b. Includes items not specified in other columns of this table.
n.a.: Data not available.

TABLE XV-19. MICHIGAN OIL REFINERIES: 1982

Company	Refinery location	Nominal capacity Bbls/day
Bay Refining, Dow Chemical Co.	Bay City	17,000
Crystal Refining Co.	Carson City	6,200
Lakeside Refining Co.	Kalamazoo	5,600
Total Petroleum, Inc.	Alma	42,500
Marathon Oil Co.	Detroit	68,500
Osceola Refining Co.	West Branch	12,500
Total capacity		152,300
Total average daily amount of crude refined		93,084
Michigan produced crude		56,548
Out-of-State produced crude		36,536

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1982, Annual Statistical Summary 36 (Lansing: 1984), Table 26.

TABLE XV-20. PRODUCTION OF INORGANIC CHEMICALS IN MICHIGAN AND THE UNITED STATES: 1969-1985

(In thousands of short tons)

	Chlorine gas		Sodium hydroxide		Hydrochloric acid	
Year	Michigan	United States	Michigan	United States	Michigan	United States
1969	627	9,376	672	9,917	139	1,911
1970	583	9,764	611	10,141	131	2,014
1971	502	9,352	522	9,667	140	2,099
1972	510	9,873	528	10,217	138	2,302
1973	533	10,402	584	10,734	130	2,516
1974	563	10,753	613	11,189	139	2,451
1975	445	9,167	484	9,635	101	2,009
1976	432	10,378	472	10,516	102	2,542
1977	367	10,573	408	11,000	71	2,668
1978	380	11,052	421	11,326	108	2,791
1979	466	12,291	513	12,759	181	3,090
1980	383	11,421	420	11,625	169	2,895
1981	438	10,545	370	10,633	107	2,443
1982	140	9,176	155	9,385	101	2,460
1983	54	9,864	62	10,039	72	2,420
1984	n.a.	10,670	n.a.	10,914	60	2,692
1985	n.a.	10,402	n.a.	10,811	63	2,807

SOURCE: U. S. Department of Commerce, Bureau of the Census, Current Industrial Reports, Series MA28A, Annual Summaries for 1967 to 1982, tables 3 and 6. Monthly series for 1981, table 3 (Washington, D.C.: monthly).

n.a.: not available.

TABLE XV-16. RAW STEEL PRODUCTION IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1973-1984

(1,000 tons)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1973	807	786	895	936	995	925	930	920	930	968	890	963
1974	935	824	916	841	871	864	919	864	837	949	824	815
1975	867	787	852	738	693	654	693	710	776	783	708	766
1976	818	823	859	821	966	927	888	896	805	833	904	849
1977	823	796	884	823	877	891	811	908	875	768	– 799	775
1978	772	741	912	807	902	909	978	940	950	1,035	920	926
1979	1,002	878	1,044	988	1,025	981	968	942	819	823	753	751
1980	839	810	828	803	585	365	437	452	546	737	760	706
1981	770	702	827	798	788	744	792	794	684	579	590	612
1982	500	451	544	592	617	570	597	550	478	413	360	448
1983	536	561	675	656	659	588	620	523	508	637	609	562
1984	615	618	732	741	739	658	654	623	524	599	582	604
						United States						
1973	12,372	11,626	13,088	12,789	13,174	12,488	12,290	12,181	12,229	12,876	12,587	12,722
1974	12,726	11,598	12,758	12,442	12,752	12,185	12,155	11,837	11,849	12,617	11,614	10,960
1975	11,584	10,862	11,980	10,667	9,864	8,744	8,370	8,648	9,295	9,214	8,709	8,846
1976	9,835	9,907	11,294	11,439	12,136	11,605	11,400	11,128	10,463	10,295	9,227	9,215
1977	9,089	8,859	11,049	11,167	12,201	11,384	10,319	10,392	10,050	10,442	9,748	10,031
1978	10,301	9,643	11,082	11,528	12,320	11,861	11,387	11,550	11,467	12,104	11,654	11,812
1979	11,105	10,562	12,576	12,196	12,789	12,230	11,821	11,309	10,541	10,810	9,997	9,996
1980	10,701	10,332	11,439	10,658	9,226	7,501	6,796	7,019	7,767	9,442	10,057	10,180
1981	10,590	10,028	11,744	11,243	11,374	10,451	10,160	10,120	9,618	9,003	7,962	7,671
1982	7,737	7,178	8,049	6,982	6,678	6,050	5,719	5,538	5,302	5,262	4,546	4,456
1983	5,570	5,676	7,127	7,292	7,412	6,993	6,921	7,020	7,134	7,692	6,263	6,991
1984	7,970	8,142	9,056	8,997	9,174	7,945	7,460	6,915	6,378	6,703	6,422	6,013

SOURCE: American Iron and Steel Institute, special release.

TABLE XV-22. WINE SHIPMENTS BY WINERY, AND BEER SHIPMENTS BY BREWERY, IN MICHIGAN: 1983 AND 1984

Producer	1983	1984
Winery shipments (liters)		
Boskydel	13,978.95	14,729.30
Bronte	134,623.00	42,886.00
Chateau Grand Traverse	20,197.40	57,580.30
Chi (Bridgeman)	13,320.64	29,747.34
Chi (Buchanan)	80,751.14	121,290.87
Fenn Valley	43,885.19	53,488.96
Fink	--	1,321.62
Frontenac	137,445.30	117,196.60
Good Harbor	19,794.81	30,428.99
Lakeside	149,680.88	121,751.48
Leelanau (Frank)	12,186.00	8,409.00
Leelanau (Omena)	42,138.00	34,670.00
Leelanau (T.C.)	15,642.00	10,350.00
L. Mawby	4,811.98	8,168.00
Milan	133,229.26	75,472.85
Parmenter	18,442.92	2,851.40
Peterson & Sons	258.16	1,898.38
Seven Lakes	--	3,363.16
St. Julian (Frank)	56,986.72	4,374.40
St. Julian (Paw Paw)	519,722.80	427,426.00
Warner	557,425.30	621,739.20
TOTAL	2,189,327.63[a]	1,789,144.15
Brewery Shipments (barrels)		
Carling National Breweries		
Michigan Sales	895,415	c
Shipped-out	241,145	c
Total	1,136,560	c
Geyer Brothers Brewery		
Michigan Sales	2,892	2,583
Shipped-out	86	26
Total	2,978	2,609
G. Heilman Brewing Company		
Michigan Sales	--	858,278
Shipped-out	--	432,439
Total	--	1,290,717
The Real Ale Company		
Michigan Sales	281	24
Shipped-out	0	0
Total	281	24
The Stroh Brewery Company		
Michigan Sales	784,331	1,095,232
Shipped-out	4,184,206	3,557,644
Total	4,968,537	4,652,876

TABLE XV-22. WINE SHIPMENTS BY WINERY, AND BEER SHIPMENTS BY BREWERY, IN MICHIGAN: 1983 AND 1984 (cont.)

Producer	1983	1984
Brewery Shipments (barrels) - cont.		
The Stroh Brewery-Goebel Division		
Michigan Sales	64,882	d
Shipped-out	118,466	d
Total	183,348	d
The Stroh Brewery - Schlitz Division		
Michigan Sales (only)	296,272	d
Total all breweries		
Michigan Sales	2,044,073	1,956,117
Shipped-out	4,543,903	3,990,109
TOTAL	6,587,976	5,946,226

SOURCE: Michigan Liquor Control Commission, special release.

a. Nonalcoholic wine is also included in 1983 total figure. Nonalcholic wine is not included in each separate winery entry in 1983.
b. Nonalcoholic wine is also included in each separate winery entry of 1984 and in the 1984 total figure.
c. Carling National Breweries is now a division of G. Heilman Brewing Company.
d. 1984 data aggregated into the 1984 data of Stroh Brewery Company.

TABLE XV-23. CAPITAL EXPENDITURES AND GROSS ANNUAL COSTS FOR POLLUTION ABATEMENT IN MANUFACTURING ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES: 1973-1984

(In millions of dollars)

	Capital expenditures			Annual operating costs		
Year	Air	Water	Solid waste	Air	Water	Solid waste
			Michigan			
1973	62.7	41.9	4.0	62.3	64.0	36.6
1974	52.8	42.9	10.2	65.1	78.4	36.4
1975	49.9	52.5	8.4	83.0	75.5	41.3
1976	45.7	57.2	3.8	91.7	93.1	52.0
1977	60.9	81.6	6.1	94.6	120.2	72.8
1978	87.9	73.2	9.7	108.9	134.0	85.1
1979	130.9	77.8	9.8	141.4	157.8	88.9
1980	83.6	66.3	13.6	135.3	168.2	109.3
1981	144.6	65.2	12.4	143.8	199.1	123.9
1982	96.5	45.5	6.1	107.3	171.4	91.6
1983	38.6	43.8	4.4	122.6	206.5	127.1
1984	49.8	67.4	14.4	178.5	227.9	180.6
			United States			
1973	1,417.5	827.8	108.2	960.5	993.3	491.7
1974	1,947.5	1,008.8	144.7	1,210.7	1,261.4	630.7
1975	2,235.7	1,280.1	121.8	1,508.1	1,496.4	669.7
1976	1,797.8	1,599.2	134.8	1,888.2	1,824.0	827.1
1977	1,652.0	1,674.1	157.7	2,240.4	2,203.4	981.4
1978	1,853.6	1,246.5	178.9	2,527.4	2,529.9	1,218.2
1979	2,071.9	1,245.7	246.9	3,061.8	3,015.6	1,322.5
1980	2,105.5	1,146.5	251.0	3,297.8	3,193.1	1,650.6
1981	2,193.6	1,028.4	263.1	3,697.8	3,554.3	1,855.7
1982	1,828.2	977.4	218.5	3,455.9	3,488.5	1,619.9
1983	1,029.0	819.0	197.1	3,806.9	3,943.2	2,175.0
1984	1,037.1	887.8	246.9	4,189.3	4,296.4	2,402.5

SOURCE: U. S. Department of Commerce, Bureau of the Census, Current Industrial Reports, Pollution Abatement Costs and Expenditures, 1984 (Washington, D.C.), MA-200(84)-1.

XVI. THE AUTOMOTIVE ECONOMY

A thorough search of the Michigan Historical Commission Archives in Lansing yielded the names of corporations that engaged in motor vehicle assembly during the first decade of this century. They appear below in roughly the order in which they were incorporated.

Name of organization	First location	Years during which automobiles were produced[a]	Year first truck produced
Old Motor Words	Detroit	01 - 08	01[b]
Pontiac Spring and Wagon	Pontiac	07 - 08	
Jackson Automobile	Jackson	02 - 18	03[b]
Burtt Manufacturing	Kalamazoo	04 - 05	
Marr Auto Car	Detroit	03 - 04	
Ford Motor	Detroit	03 - 72	04[c]
Huber Automobile	Detroit	n.a.	04[b]
Packard	Detroit	02 - 54	03[b]
Buick	Flint	03 - 72	03[b]
Welch	Flint	01 - 09	
Detroit Automobile Mfg.	Detroit	05 - 07	
Detroit Auto Vehicle	Detroit	04 - 07	06[c]
Reo Car	Lansing	04 - 36	10[b]
Pungs-Finch Auto & Gas Eng.	Detroit	04 - 10	
Ried Manufacturing	Detroit	03 - 05	
C.H. Blomstrom Mfg.	Detroit	03 - 06	
Eureka Mfg.	Detroit	n.a.	
Hammer Motor	Detroit	05 - 06	
Wayne Automobile	Detroit	04 - 08	
Rapid Motor Vehicle	Detroit	n.a.	02[b]
Reliance Motor Car	Detroit	03 - 07	06[b]
International Auto	Detroit	n.a.	
Matheson Motor Car	Detroit	n.a.	
Couple Gear Freight Wheel	Gr. Rapids	n.a.	05[b]
Motorcar	Detroit	06 - 08	06[c]
Bates	Lansing	03 - 05	
Dolson	Charlotte	04 - 07	
Cadillac	Detroit	02 - 72	04[c]
Aerocar	Detroit	05 - 07	
Nielson	Detroit	07	06[b]
Whiting Motor Car	Jackson	n.a.	
Steel Swallow Motor Car	Jackson	07 - 08	
Northern	Detroit	02 - 08	02[b]
Marvel Motor Car	Detroit	07	
De Luxe	Detroit	06 - 09	
Clarkmobile	Lansing	03 - 06	
Brush Runabout	Detroit	07 - 12	
Crescent	Detroit	07 - 08	
Seitz Automobile & Tsm.	Detroit	n.a.	07[b]
Carter Runabout	Detroit	n.a.	
Homer Auto Truck	Homer	n.a.	08[b]
Demotcar	Jackson	09 - 13	
C.V.I. Motor	Jackson	07 - 08	
Lichtenberg Truck	Detroit	n.a.	
Century Car	Detroit	n.a.	
Oakland Motor Car	Pontiac	07 - 32	
Regal Motor	Detroit	08 - 18	
Fee Electric	Detroit	n.a.	
Chalmers-Detroit	Detroit	08 - 12	07[b]
Everitt-Metzger-Flanders	Detroit	08 - 12	
Grabowsky Power Wagon	Detroit	n.a.	08[b]
Cartercar	Pontiac	08 - 15	06[b]
Herreshoff Motor	Detroit	09 - 13	11[b]

Name of organization	First location	Years during which automobiles were produced[a]	Year first truck produced
Dowagiac Motor Car	Dowagiac	n.a.	08[b]
Hupp Motor Car	Detroit	09 - 36	11[b]
Ranier Motor Car	Saginaw	05 - 11	
Hudson Motor Car	Detroit	09 - 57	29[b]
Marquette Motor	Saginaw	n.a.	
Regal Motor Car	Detroit	n.a.	
Imperial Automobile	Jackson	09 - 15	12[b]
Detroit-Dearborn M.C.	Detroit	09 - 10	
Krit Motor Car	Detroit	09 - 14	09[b]
R.B. Hawley	Jackson	07	
Lion Motor Car	Adrian	09 - 12	
Warren Motor Car	Detroit	09 - 13	09[b]
Metzger Motor Car	Detroit	09 - 12	11[b]
Ajax Motor Wagon	Detroit	n.a.	
Holland Automobile Mfg.	Holland	n.a.	
Anhut	Detroit	09 - 10	
Watt	Detroit	n.a.	
Abbott Motor Car	Detroit	09 - 16	
Owen Motor Car	Detroit	09 - 11	
Henry Motor Car	Muskegon	09 - 11	
Templeton Du Brie	Detroit	n.a.	
Van Dyke	Detroit	n.a.	
Muskegon	Muskegon	n.a.	07[b]
Detroit Electric	Detroit	07 - 23	
Paige-Detroit	Detroit	19-28	09[b]

a. Philip Hillyer Smith, Wheels Within Wheels (New York: Funk & Wagnalls, 1968), pp. 191-267.

b. The Saturday Evening Post, "Roll Call of 1801 Makes Trucks and Busses Sold in America During the Past 50 Years or More," (New York: The Curtis Publishing Company, 1954).

c. Detroit Free Press, various issues, 1901-1910.

n.a.: Data not available or not applicable.

Other sources were consulted to complete the listing or organizations producing cars or trucks in Michigan between 1900 and 1910.

Name of organization	First location	Years during which automobiles were produced[a]	Year first truck produced
American Electromobile	Detroit	n.a.	06[b]
Walker Motor Car	Detroit	05 - 06	
Soules	Gr. Rapids	05 - 08	06[b]
Lindsley	Dowagiac	n.a.	
Kermath	Detroit	06 - 07	
Wm. H. Newbrough[d]	Lansing	n.a.	
E.F. Johnson[e]	Kalkaska	n.a.	
Sintz	Gr. Rapids	03 - 04	
Austin	Gr. Rapids	03 - 17	
Michigan	Kalamazoo	03 - 07	
Michigan Yacht & Power	Detroit	n.a.	04[b]
Detroit Auto Company	Detroit	n.a.	00[e]
Commercial Motor Vehicle	Detroit	n.a.	04[c]
Chelsea Mfg.	Chelsea	01 - 04	
Wolverine	Dundee	06	
Hammer-Sommer	Detroit	03 - 04	
Imperial	Detroit	03 - 05	

a. Philip Hillyer Smith, Wheels Within Wheels (New York: Funk & Wagnalls, 1968), pp. 191-267.
b. Detroit Free Press, various issues, 1901-1910.
c. Commercial Car Journal, November 1948, pp. 81-84, 260-64.
d. J.P. Edmonds, Development of the Automobile and Gasoline Engine in Michigan (Lansing: Franklin De Kleine Company, 1942).
e. Fleet Owner, May 1946, p. 150.
n.a.: Data not available or not applicable.

The May 1946 issue of Fleet Owner (p. 150) mentioned a Detroit Automobile Company that produced a 500-pound capacity delivery wagon. There is no evidence of this firm in the other materials consulted. Fleet Owner also mentioned the Elmer F. Johnson Cycle Works in Kalkaska. The existence of this manufacturer is corroborated by Polk's Michigan Gazetteer for the year 1903, in which Johnson advertised as a maker of bicycles and automobiles.

Assuming the Detroit Automobile Co. delivery wagons were the first trucks built in Michigan, the second manufacturer was the Olds Motor Works in Detroit. In 1901, Polk's Michigan Gazetteer listed Olds as a manufacturer of gas and gasoline engines, automobiles, and motor trucks. Max Grabowsky was probably the third to produce and sell trucks in Michigan. The fourth was the Jackson Automobile Company. Buick was probably the fifth truck manufacturer, followed closely by Huber and then Packard. The latter had completed its move from Warren, Ohio, by the end of 1904. Packard evidently built trucks in Warren before shifting its base to Detroit, but in terms of the strict chronology of Michigan, Huber was in truck production before Packard.

Ford did not appear in the Saturday Evening Post listing until 1917, and Cadillac was not listed at all by the Post. However, both companies advertised a delivery wagon in the 12 February 1905 issue of the Detroit Free Press and so are included on the list. That issue of the Free Press had a special section on the fourth annual Detroit Automobile Show, in those days an adjunct to the annual sportsmen's show in the Detroit armory. Ads for cars and trucks in newspapers were rare. Olds was probably the first to carry on an extensive advertising campaign, which he did in the pages of the Saturday Evening Post. Olds also advertised delivery wagons, both light and heavy duty. The first Free Press commentary that recognized the distinction between passenger cars and trucks seems to be the one that appeared in the special section in 1905.

> A specialty is being made of Oldsmobile delivery cars, a light car of 10 h.p. and a carrying capacity of forty-one cubic feet, and a heavy car of 16 h.p. and a carrying capacity of eighty-seven cubic feet. The latter, it is said, will do the work of two two-horse wagons and will carry 2,000 pounds, under all conditions, at an average speed of fifteen miles an hour. The other car turned out by the Olds Co. is the 10 passenger coach, a 16 h.p. machine for the hotel, stage coach, and general livery use.

The commentary on the Ford exhibit reads:

> Special attention is being paid to the delivery car, which has a standard "Model C frame. Ford 2-cylinder opposed engine; mileage capacity, on one filling of gasoline, 180 miles; on one filling of oil, 100 miles; carrying capacity of body, 600 to 800 pounds, besides driver, nearly 2 cubic yards in volume (Part 4, p.1).

Ford and Olds produced mainly automobiles, whereas Max Grabowsky specialized in truck production as early as 1902, although the first annual report for his Rapid Motor Vehicle Company in the archives is for 1904. Emil Huber founded the Huber Automobile Company to specialize in truck production in 1903, producing his first commercial vehicle in 1904. In 1906, according to the Free Press ad by the Huber Company, this organization was manufacturing gasoline engine trucks of two, four, and six tons, as well as passenger coaches that could accommodate 20, 30, or 40 people. By 1906, Reliance was advertising a two-ton truck. Soule's delivery wagon also appeared in 1906, along with the Cartercar delivery vehicle (by Motorcar Company), and the Crown delivery car (by the Detroit Auto Vehicle Company). American Electromobile also advertised a truck for the first time.

In 1908, Seitz Automobile and Transmission Company, manufacturers of motor trucks and delivery wagons, advertised a new type of automatic transmission known as the Seitz Double Friction, which enabled the driver to "automatically change speed without releasing the clutch."

The quinquennial census of manufacturers for 1905 introduced the chapter on automobiles with this paragraph:

> In five years the manufacturers for 1905 automobiles in the United States has grown from an industry so unimportant that it was not reported separately at the census of 1900 to one with products valued at $26,645,064 at the census of 1905, which covered the calendar year 1904. This remarkable growth is not, like that of the bicycle, based on a fad, and so liable to as sudden a decline. Unlike the bicycle, the automobile is not essentially a new vehicle, but merely a carriage or truck with a new means of propulsion, possessing many advantages over a vehicle drawn by horses. As a means of amusement its popularity may fluctuate or decline, but its practical value has been so thoroughly demonstrated that its use will doubtless become more general each succeeding year, until it is displaced by some vehicle as much its superior as the automobile is the superior of the horse and wagon.

Farther on it is reported that...

> the manufacture of automobiles was carried on in 13 states in 1900, and in 17 in 1905. At the census of 1905 Michigan, with 22 establishments, ranked first. New York stood second with 21, and Ohio third, with 14. Massachusetts, which 11 establishments; Illinois and Indiana, with 8 each; Connecticut, with 7; California, Pennsylvania, and Wisconsin, with 6 each; and New Jersey, with 5 followed in the order named.
>
> Michigan, from which state no establishments were reported in 1900, held first rank in capital invested in 1905, the amount being $3,765,240. Connecticut, with $3,712,922, dropped from first place in 1900 to second in 1905. Ohio, with an increase of $3,475,662, more than fifty-fold, advanced from eighth rank to third; Massachusetts, with an increase of $1,148,345, from fifth to fourth; and Pennsylvania, with an increase of $1,155,863, nearly fourfold, from sixth to fifth. Wisconsin , with $1,240,006, and Indiana, with $1,140,509, both of which reported but 1 establishment in 1905. With the enormous general

> increase in the industry, it is surprising to note the following decreases: Illinois fell from second to eighth place, reporting a decrease of $596,358, or 61.2 percent; and New Jersey, from third to ninth place, which a decrease of $452,239, or 59.3 percent. Maryland reported $81,600 capital in 1900 and none at all in 1905. In 1900 Connecticut was the only state that reported a total capital in excess of $1,000,000, while there were 8 states in this class in 1905.
>
> The number of wage-earners increased from 2,241 in 1900 to 10,239 in 1905. At the census of 1900 Connecticut ranked first both in number of wage-earners and total wages paid. In number of wage-earners Illinois and Massachusetts followed, each having 303. In wages paid Illinois stood second, with $217,603, and Massachusetts third, with $188,098. New York stood fourth both in number of wage-earners and in wages paid, and New Jersey fifth. These 5 states reported a total of 1,990 wage-earners, receiving $1,168,331 in wages, 88.8 and 88.5 percent, respectively, of the totals for the country.
>
> In number of wage-earners in 1905 Ohio stood first, with 2,277, an increase of 2,191. Michigan followed with 2,123. New York with 1,624, an increase of 1.336, advanced from fourth to third in rank. Connecticut, with 1,065 fell from first to fourth place. Massachusetts, though reporting an increase of 649, fell from second to fifth place. Indiana, Pennsylvania, and Wisconsin followed in the order named. In amount of wages paid in 1905 the states ranked in the same order with a single exception, New York exchanging places with Michigan.
>
> The inconsiderable number of women and children employed is noteworthy. This is due to the fact that the labor requires physical strength and a high degree of mechanical skill. In 1900 only 4 women were employed in the entire United States, 3 of whom were reported by New York. In 1905 the number had increased to only 11. In 1900 only 6 children were employed, and 1905 but 32.

The census figures on production for the previous year indicated a total output of 21,692 vehicles, of which 9,095, or 42 percent, were made in Michigan.

The subsequent census of manufactures, for 1910, showed that 126,593 vehicles were assembled in 1909, of which 64,810, or 51 percent, were Michigan-made. The 1914 tally was 569,054, of which 443,072, or 78 percent, came from this state. The following tabulation appeared in the census of manufactures for 1915:

Class of vehicle and state	Number produced		
	1904	1909	1914
Touring cars:			
Illinois	52	2,059	2,686
Indiana	387	6,838	13,034
Michigan	2,561	43,855	367,092
New York	397	5,440	5,945
Ohio	2,521	6,479	49,421
Wisconsin	--	--	8,825
Total	7,220	76,114	451,267

Class of vehicle and state	Number produced 1904	Number produced 1909	Number produced 1914
Runabouts			
Illinois	54	433	151
Indiana	230	8,139	1,431
Michigan	6,432	18,173	63,381
New York	1,082	2,900	7,117
Ohio	186	2,900	7,117
Total	12,131	36,204	81,603
All other varieties			
Illinois	47	407	282
Indiana	372	2,104	503
Michigan	30	1,855	6,610
New York	60	507	792
Ohio	100	4,114	2,010
Total	910	9,550	10,809
Total pleasure and family vehicles	20,261	121,868	543,679
Delivery wagons			
Illinois	--	447	23
Indiana	18	107	17
Michigan	51	401	1,295
New York	77	139	511
Ohio	--	469	1,025
Pennsylvania	--	242	1,275
Total	251	1,862	4,391
Trucks			
Illinois	--	28	1,072
Indiana	--	43	445
Michigan	51	372	4,684
New York	81	475	2,250
Ohio	1	202	7,598
Pennsylvania	--	--	771
Wisconsin	--	--	677
Total	160	1,366	19,551
All other vehicles			
Illinois	--	--	37
Indiana	13	22	18
Michigan	--	144	10
New York	111	406	521
Ohio	--	135	321
Pennsylvania	5	127	93
Total	1,020	1,497	1,433
Total business vehicles	1,431	4,725	25,375
Total, all classes	21,692	126,593	569,054

Data from various censuses show the following trend in motor vehicle production is Michigan and the United States:

	Passenger Cars[a]		Commercial vehicles[b]	
Year	Michigan	United States	Michigan	United States
1914	437,083	543,916	5,989	25,375
1919	591,418	1,583,916	49,405	126,436
1921	440,818	1,406,257	32,465	105,857
1923	1,008,434	3,432,308	67,080	281,477
1925	1,279,718	3,581,240	125,542	341,811
1927	1,460,235	2,826,274	90,780	329,673
1929	1,594,926	4,388,315	82,201	391,593
1931	675,178	1,921,435	39,612	245,735
1933	n.a.	1,542,054	n.a.	215,216
1935	n.a.	3,219,756	n.a.	510,286
1935[c]	1,587,441	3,212,835	148,341	505,226

a. Passenger cars include taxi cabs and buses.
b. Including delivery trucks, truck-tractors, hearses, ambulances, fire trucks.
c. Passenger car figures exclude taxi cabs and buses. Commercial vehicle figures exclude trucks tractors, hearses, ambulances, and fire trucks.
n.a.: Data not available.

The Bureau of the Census did not publish automotive assembly data for states subsequent to the 1935 figures. However, since the 1950s, annual assembly data for states have been assembled and released by trade publications.

The following data on value added by manufacture and employment in motor vehicles, motor vehicle bodies, and motor vehicle parts have been assembled from various censuses. Value added by manufacture, essentially, is the value that the industry adds, after subtracting the cost of raw materials. The employment figures pertain to wage earners, not owners, officers, and salaried employees.

	Value added ($ millions)		Wage Earners (numbers)	
Year	Michigan	United States	Michigan	United States
1899	n.a.	2.9	n.a.	2,241
1904	n.a.	16.9	2,735	12,049
1909	42.8	117.6	25,444	75,721
1914	179.1	276.6	67,538	127,092
1919	660.6	1,139.4	175,985	343,115
1921	353.2	758.4	110,386	212,777
1923	711.9	1,464.9	219,453	404,886
1925	944.7	1,750.5	234.492	426,110
1927	869.4	1,469.1	209,458	359,399
1929	823.2	2,002.2	214,368	447,448
1931	514.5	951.6	153,029	285,515
1933	401.9	650.8	151,200	243,614
1935	724.3	1,124.8	238,845	387,801
1937	938.0	1,506.9	297,477	479,341
1937[a]	n.a.	1,581.9	n.a.	511,333

TABLE XV-21. COMMERCIAL WHEAT MILLING PRODUCTION IN MICHIGAN AND THE UNITED STATES: 1967-1983

	Wheat grd. for flour (1,000 bushels)		Wheat flour production				Average lbs. per cwt. sacks of flour
			Total (1,000 cwt. sacks)		Daily (24 hour capacity cwt. sacks)		
Year	Michigan	United States	Michigan	United States	Michigan	United States	
1967	16,966	549,801	7,453	245,240	33,870	1,132,923	n.a.
1968	17,483	569,649	7,561	254,185	31,429	1,001,526	n.a.
1969	17,861	567,956	7,740	254,094	32,129	1,013,322	n.a.
1970	16,506	563,714	7,275	253,094	34,656	987,962	n.a.
1971	16,003	555,092	7,120	249,810	34,029	972,736	133.3
1972	14,199	557,801	6,236	250,441	19,576	985,460	133.6
1973	9,351	567,287	4,117	254,661	18,486	979,794	133.7
1974	9,557	562,962	3,922	251,097	17,724	978,276	134.5
1975	8,397	582,675	3,739	258,985	19,485	991,008	134.9
1976	9,374	618,284	4,053	275,077	19,511	1,040,628	135.0
1977	9,147	618,125	4,153	275,784	20,049	1,072,143	134.5
1978	10,416	621,321	4,446	277,950	20,220	1,058,873	134.1
1979	10,196	636,375	4,429	284,051	20,449	1,054,589	134.4
1980	9,894	628,599	4,285	282,655	22,249	1,059,643	133.4
1981	10,834	634,381	4,741	283,966	23,109	1,062,950	134.0
1982	10,875	640,158	4,735	284,965	26,350	n.a.	134.8
1983	11,295	686,983	4,886	306,066	25,149	1,127,223	n.a.

Source: U.S. Department of Commerce, Bureau of the Census, Current Industrial Reports, Series M20 A-13, Annual Summaries, table 4 (Washington, D.C.: Annually).

n.a.: not available.

	Value added ($ millions)		Wage Earners (numbers)	
Year	Michigan	United States	Michigan	United States
1939	771.5	1,322.5	253,917	397,537
1939[a]	n.a.	1,304.4	n.a.	393,617
1947[b]	n.a.	3,819.1	n.a.	599,301
1947[c]	1,880.8	3,577.4	321,282	558,693

a. Revised; not comparable with data originally published.
b. Comparable with the 1939 data.
c. Excludes components of the industry that were included previously
n.a.: not available.

The industry definition has been revised since 1947.

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TABLE XVI-2. PRODUCTION OF MOTOR VEHICLES IN MICHIGAN AND THE UNITED STATES, SELECTED YEARS: 1957-1985

	Cars			Trucks and buses		
Year	Michigan	United States	Percentage	Michigan	United States	Percentage
			(In thousands)			
1957	2,118	6,120	35	180	1,100	16
1958	1,239	4,247	29	153	873	18
1959	1,658	5,599	30	184	1,124	16
1960	2,092	6,703	31	203	1,202	17
1961	1,774	5,522	32	171	1,130	15
1962	2,280	6,943	33	228	1,254	18
1963	2,590	7,644	34	265	1,464	18
1964	2,622	7,745	34	385	1,562	25
1965	3,255	9,335	35	495	1,802	27
1966	3,024	8,605	35	515	1,792	29
1967	2,600	7,413	35	459	1,611	28
1968	3,009	8,849	34	511	1,972	26
1969	2,873	8,224	35	533	1,982	27
1970	2,099	6,550	32	454	1,734	26
1971	2,836	8,584	33	587	2,088	28
1972	2,902	8,828	33	734	2,483	30
1973	3,268	9,667	34	1,012	3,015	34
1974	2,403	7,325	33	897	2,747	33
1975	2,249	6,717	33	757	2,270	33
1976	2,914	8,498	34	1,030	3,000	34
1977	2,852	9,214	31	1,077	3,489	31
1978	2,706	9,177	29	1,288	3,723	35
1979	2,582	8,434	31	996	3,046	33
1980	1,732	6,376	27	443	1,634	27
1981	2,040	6,253	33	460	1,690	27
1982	1,818	5,073	36	577	1,913	30
1983	2,077	6,781	31	697	2,421	29
1984	2,127	7,773	27	886	3,151	28
1985	2,400	8,186	29	898	3,466	26

SOURCE: Automotive News, Almanac Issue, 1954 through 1972; Ward's Communications, Inc., Wards Automotive Yearbook, 1958 through 1972 (Detroit: annually); Motor Vehicle Manufacturers Association, special release; and the various companies, 1972-1985 Michigan figures.

n.a.: not available.

TABLE XVI-1. WORLD PRODUCTION OF MOTOR VEHICLES, BY COUNTRY: 1959-1984

Year	United States	Canada	Japan	France	West Germany	Italy	United Kingdom	Russia	Spain
1959	6,723,588	367,939	262,814	1,283,159	1,718,544	500,784	1,560,427	494,994	56,800
1960	7,905,117	397,739	481,551	1,369,210	2,055,127	644,633	1,810,700	523,591	58,209
1961	6,652,938	386,923	813,879	1,244,223	2,147,825	759,140	1,464,134	555,330	75,000
1962	8,197,311	505,187	990,706	1,536,133	2,356,594	946,793	1,674,530	577,500	100,163
1963	9,108,776	631,356	1,283,531	1,736,977	2,667,896	1,180,536	2,011,720	587,012	131,988
1964	9,307,860	670,990	1,702,475	1,615,896	2,909,657	1,090,078	2,332,376	603,100	178,128
1965	11,137,830	846,609	1,875,614	1,641,696	2,976,477	1,175,548	2,177,261	634,312	228,935
1966	10,396,299	872,214	2,286,399	2,024,552	3,050,708	1,365,898	2,042,354	675,300	340,418
1967	9,023,736	919,508	3,146,486	2,009,672	2,482,319	1,542,669	1,937,119	728,800	361,637
1968	10,820,410	1,150,218	4,085,826	2,075,617	3,106,958	1,660,370	2,225,122	800,700	393,433
1969	10,205,911	1,326,478	4,674,923	2,459,072	3,604,567	1,595,951	2,182,793	844,300	454,571
1970	8,283,949	1,159,504	5,289,147	2,750,086	3,842,247	1,854,252	2,098,498	916,118	536,026
1971	10,671,654	1,346,765	5,810,774	3,010,294	3,982,722	1,817,019	2,198,146	1,142,700	532,358
1972	11,310,708	1,430,084	6,294,438	3,328,320	3,815,982	1,839,793	2,329,430	1,379,000	695,217
1973	12,681,513	1,574,820	7,082,757	3,596,179	3,949,065	1,957,994	2,163,941	1,602,000	822,020
1974	10,072,662	1,524,874	6,551,840	3,462,847	3,099,777	1,772,515	1,936,685	1,846,000	837,414
1975	8,986,605	1,424,006	6,941,591	2,861,305	3,186,208	1,458,629	1,648,399	1,964,056	814,164
1976	11,497,391	1,640,112	7,841,447	3,402,715	3,868,089	1,590,677	1,705,506	2,024,660	866,240
1977	12,702,782	1,775,445	8,514,522	3,507,881	4,104,216	1,583,917	1,714,240	2,088,369	1,129,700
1978	12,899,202	1,817,457	9,269,153	3,507,930	4,186,364	1,656,115	1,607,467	2,150,984	1,143,831
1979	11,479,993	1,631,661	9,635,546	3,613,458	4,249,743	1,632,289	1,478,512	2,173,200	1,122,918
1980	8,009,841	1,374,359	11,042,884	3,378,433	3,878,553	1,610,287	1,312,914	2,199,200	1,181,659
1981	7,942,916	1,322,780	11,179,962	3,019,370	3,897,007	1,433,743	1,184,205	2,197,000	987,474
1982	6,985,595	1,276,452	10,731,794	3,148,807	4,062,665	1,453,043	1,156,477	2,172,700	1,069,507
1983	9,205,373	1,524,413	11,111,659	3,335,862	4,154,439	1,575,141	1,289,111	2,180,000	1,288,721
1984	10,939,048	1,829,283	11,464,920	3,062,157	4,045,462	1,601,177	1,133,731	2,209,400	1,308,769

TABLE XVI-1. WORLD PRODUCTION OF MOTOR VEHICLES, BY COUNTRY: 1959-1984 (cont.)

Year	Poland	Belgium	Sweden	Yugo-slavia	East Germany	Czecho-slovakia	Nether-lands	Hungary	Austria
1959	34,500	343	112,394	8,658	67,341	66,662	6,788	4,900	20,187
1960	36,400	256	128,527	15,921	76,000	73,684	19,339	5,600	12,568
1961	35,990	800	131,755	21,254	84,200	77,053	18,592	6,400	13,484
1962	41,129	1,043	151,568	21,197	88,000	81,224	28,577	7,700	12,395
1963	48,388	1,200	167,850	28,898	94,000	70,781	22,362	6,000	10,078
1964	54,853	2,070	184,018	38,692	102,000	55,468	36,208	8,000	7,660
1965	59,800	166,594	205,717	45,452	118,056	90,713	35,817	7,131	5,044
1966	66,975	195,219	199,910	48,834	126,626	113,421	39,994	7,990	4,210
1967	68,359	183,087	214,560	55,641	134,101	133,174	56,749	8,250	3,729
1968	84,921	172,906	244,786	74,106	139,116	150,299	66,442	8,500	4,088
1969	101,800	302,549	271,440	94,983	147,680	158,582	71,656	9,000	5,417
1970	118,100	272,433	310,887	130,563	153,378	169,920	79,219	9,200	3,937
1971	145,700	295,764	317,295	132,368	60,762	176,862	91,315	9,500	6,878
1972	156,100	271,453	350,989	126,412	69,616	182,937	130,861	10,000	6,255
1973	190,400	298,957	378,042	143,826	80,203	197,802	108,254	10,500	6,278
1974	200,878	183,128	368,359	189,728	88,930	200,877	82,081	12,075	4,642
1975	258,300	222,176	366,753	205,567	197,457	211,073	71,479	12,100	7,699
1976	312,100	326,978	367,780	216,071	202,371	215,836	86,323	12,900	8,739
1977	374,400	336,382	298,121	257,762	204,394	197,585	66,461	13,313	8,177
1978	404,261	303,260	317,898	279,759	210,486	218,468	85,200	15,973	5,486
1979	422,134	314,997	373,645	315,110	220,000	228,738	111,809	13,814	9,376
1980	432,100	259,966	315,100	283,744	216,585	233,812	114,881	16,315	16,061
1981	306,700	257,456	331,426	266,423	219,400	229,513	101,434	12,288	14,920
1982	276,351	278,014	365,352	241,316	221,800	224,449	109,005	13,299	15,155
1983	335,679	285,478	414,522	247,978	227,900	223,849	122,237	12,852	12,207
1984	343,000	249,461	431,852	272,398	245,100	230,262	129,121	13,062	10,999

TABLE XVI-1. WORLD PRODUCTION OF MOTOR VEHICLES, BY COUNTRY: 1959-1984 (cont.)

Year	Argentina	Australia	Brazil	India	Korea	Mexico	South Africa	World
1959	32,952	263,592	96,243	36,997	--	51,118	98,738	13,870,355
1960	89,338	326,250	133,078	51,126	--	49,807	113,097	16,376,865
1961	136,188	231,651	145,674	53,865	--	62,563	90,660	15,209,431
1962	129,880	329,829	191,057	56,967	--	66,637	106,145	18,202,770
1963	104,899	374,058	174,221	51,416	--	69,135	147,945	20,720,346
1964	166,483	411,750	183,045	67,135	--	90,752	195,756	22,020,434
1965	194,536	407,596	185,155	72,577	--	96,654	174,991	24,567,935
1966	179,453	343,929	224,574	72,530	--	113,807	183,700	24,980,754
1967	175,318	366,547	225,418	70,359	--	126,365	193,600	24,183,537
1968	180,976	418,307	278,473	79,541	--	143,478	211,791	28,611,717
1969	218,590	451,917	349,519	76,215	--	165,164	256,296	30,083,671
1970	219,599	473,790	416,047	82,766	28,819	192,841	297,573	29,707,707
1971	253,640	470,122	516,038	89,110	23,002	210,840	295,682	33,728,068
1972	278,222	466,917	608,985	90,048	18,648	229,766	292,277	35,845,958
1973	311,614	454,190	729,135	97,917	26,314	285,513	342,383	39,236,122
1974	286,312	489,339	858,470	87,889	30,290	350,755	341,927	35,108,355
1975	240,036	456,167	929,805	74,276	36,264	360,678	363,605	33,322,385
1976	193,517	456,216	985,469	85,058	48,292	324,979	300,248	38,619,510
1977	235,356	452,592	919,242	89,145	83,000	280,813	256,801	41,240,509
1978	179,875	384,966	1,062,197	98,846	156,418	384,128	303,723	42,611,416
1979	253,217	461,468	1,127,966	101,273	204,447	444,426	314,067	41,978,835
1980	281,669	364,109	1,165,207	113,326	123,135	490,006	404,756	38,837,509
1981	172,350	391,614	779,836	148,887	133,084	597,118	453,541	37,380,354
1982	132,116	408,570	860,593	152,429	163,484	472,637	411,800	36,418,953
1983	159,175	337,075	896,282	154,115	221,019	285,485	373,281	39,990,246
1984	167,323	399,084	864,663	180,919	265,361	343,698	387,658	42,141,483

SOURCE: Motor Vehicle Manufacturers Association of the United States, World Motor Vehicle Data (Detroit: 1984).

TABLE XVI-3. PRODUCTION OF MOTOR VEHICLES IN MICHIGAN, BY PLANT, AND IN THE UNITED STATES: 1978-1984

	1978	1979	1980	1981	1982	1983	1984
Dearborn, Ford	232,326	344,135	241,502	171,056	160,075	148,922	158,592
Detroit, Cadillac, Oldsmobile	291,168	261,515	115,424	155,622	156,618	186,231	216,713
Detroit, Chevrolet truck GMC truck	38,059	27,260	18,218	28,416	31,624	36,452	62,843
Detroit, Chrysler, Jefferson Avenue[a]	45,001	--	69,089	204,704	176,384	258,814	235,912
Detroit, Chrysler, Jefferson Avenue Truck[a]	22,856	64,330	8,863	--	--	--	--
Detroit, Chrysler, Lynch Road	133,470	109,007	47,507	15,992	--	--	--
Flint, Buick	382,771	372,676	260,161	297,138	286,937	368,849	396,570
Flint, Chevrolet, GMC	432,238	346,447	171,152	157,886	224,187	293,436	275,406
Hamtramck, Chrysler	253,681	153,186	1,031	--	--	--	--
Kalamazoo, Checker	4,225	4,766	3,197	2,993	2,000	--	--
Lansing, Oldsmobile	382,514	492,834	329,607	448,562	442,054	554,919	177,919
Orion Township	--	--	--	--	--	--	131,949
Pontiac, Pontiac	306,756	285,349	142,984	150,328	106,846	30,634	114,072
Pontiac, GMC truck, Chevrolet truck	256,749	244,829	101,352	113,405	140,279	183,858	238,436
Sterling Heights	--	--	--	--	--	--	18,742
Warren, Chrysler truck	327,422	149,308	77,182	92,025	101,452	135,600	206,852
Wayne, Ford	271,662	160,123	157,134	265,325	204,438	252,794	323,445
Wayne, Ford truck	210,676	163,607	66,358	67,941	79,600	92,695	102,769
Wixom, Ford	173,964	140,096	50,927	64,185	97,620	106,531	168,704
Ypsilanti, GMAD	230,022	258,232	312,938	264,333	184,962	170,721	184,786
TOTAL, car, Michigan	2,707,560	2,581,919	1,731,501	2,040,238	1,817,934	2,077,412	2,127,404
TOTAL, truck, Michigan	1,288,000	995,781	443,125	459,673	577,142	696,546	886,306
TOTAL, car, U.S.	9,176,635	8,433,662	6,375,506	6,253,138	5,073,358	6,781,184	7,773,332
TOTAL, truck, U.S.	3,722,567	3,046,331	1,634,335	1,689,778	1,912,660	2,420,598	3,151,449

SOURCE: The various companies.

a. Converted from car to truck production for the 1978 model year. Car production resumed August, 1981.

TABLE XVI-4. FACTORY SALES OF MOTOR VEHICLES FROM CANADIAN AND U.S. PLANTS, BY CANADIAN, U.S., AND OTHER DESTINATIONS: 1970-1985

	Plants in United States				Plants in Canada				
Year	Exports to Canada	Other Exports	U.S. Domestic	U.S. Total	Exports to U.S.	Other Exports	Canada Domestic	Canada Total	U.S.-Canada Total
					Passenger cars				
1970	245,746	113,753	6,187,318	6,546,817	681,872	30,427	206,933	919,232	7,466,049
1971	352,130	110,748	8,121,714	8,584,592	779,769	37,654	258,034	1,075,457	9,660,049
1972	382,463	89,005	8,352,470	8,823,928	836,630	37,293	262,971	1,136,894	9,960,832
1973	476,099	102,699	9,078,849	9,657,647	862,407	41,126	322,506	1,226,039	10,883,686
1974	500,463	109,499	6,721,294	7,331,256	802,370	52,495	316,978	1,171,843	8,503,099
1975	549,353	90,199	6,073,300	6,712,852	713,407	58,149	271,689	1,043,245	7,756,097
1976	562,635	97,167	7,837,801	8,497,603	808,788	75,331	250,525	1,134,644	9,632,247
1977	586,073	102,308	8,512,468	9,200,849	831,994	87,148	236,559	1,155,701	10,356,550
1978	541,552	130,075	8,493,563	9,165,190	764,835	107,037	155,701	1,127,573	10,292,763
1979	582,097	158,991	7,678,138	8,419,226	582,386	92,728	298,060	973,174	9,392,400
1980	488,857	70,864	5,840,305	6,400,026	539,239	86,297	201,588	827,124	7,227,150
1981	454,567	51,398	5,749,375	6,255,340	516,430	102,095	153,612	772,137	7,027,477
1982	320,292	32,489	4,696,403	5,049,184	662,014	12,629	107,846	782,489	5,831,673
1983	505,262	32,577	6,201,384	6,739,223	773,381	19,394	152,972	945,757	7,684,970
1984	561,894	28,560	7,029,722	7,621,176	830,447	21,690	163,065	1,015,202	8,636,378
1985	635,546	29,978	7,336,735	8,002,259	878,052	5,878	184,490	1,068,420	9,070,679
					Trucks and buses				
1970	53,646	73,125	1,565,669	1,692,440	157,532	32,429	62,118	252,079	1,944,519
1971	69,026	69,812	1,914,308	2,053,146	166,307	29,924	83,107	279,338	2,332,487
1972	94,453	57,983	2,294,371	2,446,807	204,405	23,223	90,595	318,223	2,765,030
1973	120,463	72,412	1,786,813	2,979,688	215,260	27,293	112,974	355,527	3,335,215
1974	167,514	90,173	2,469,626	2,727,313	188,895	39,556	148,048	376,499	3,103,812

TABLE XVI-5. UNITED STATES-CANADA TRADE IN AUTOMOTIVE PRODUCTS, U.S. IMPORTS FROM CANADA AND CANADIAN IMPORTS FROM THE UNITED STATES: 1977-1985

(millions of U.S. dollars)

	Canadian imports[a]			U.S. imports[b]		
Year	Vehicles	Parts	Total	Vehicles	Parts	Total
1964	57	577	634	22	49	71
1965	142	738	880	88	139	227
1966	356	1,011	1,367	451	360	811
1967	666	1,216	1,882	920	474	1,394
1968	923	1,684	2,607	1,483	783	2,266
1969	976	2,134	3,110	2,097	959	3,056
1970	894	2,019	2,913	2,038	1,080	3,118
1971	1,319	2,448	3,767	2,511	1,481	3,992
1972	1,579	2,866	4,445	2,778	1,795	4,573
1973	2,082	3,552	5,634	3,061	2,172	5,233
1974	2,573	3,980	6,554	3,482	1,997	5,479
1975	3,064	4,409	7,472	3,726	2,008	5,734
1976	3,339	5,550	8,889	4,840	2,983	7,823
1977	3,712	6,434	10,146	5,636	3,496	9,132
1978	3,771	7,080	10,851	6,165	4,160	10,326
1979	4,801	7,344	12,145	5,685	3,831	9,715
1980	3,950	6,478	10,428	5,695	2,888	8,583
1981	4,218	7,700	11,918	6,917	3,462	10,379
1982	3,030	7,824	10,853	9,001	3,963	12,964
1983	4,855	9,270	14,125	10,877	5,724	16,601
1984	6,356	11,102	17,458	14,794	7,321	22,119
1985	8,227	11,937	20,164	16,092	7,778	23,870

SOURCE: U. S. Department of Commerce, special release.

a. Canadian import statistics from U.S., based on FAS or transaction values, converted to U.S. dollars on the basis of then prevailing exchange rates.

b. U.S. imports from Canada are FAS or transaction values as published by the Bureau of the Census.

p: Preliminary

TABLE XVI-6. WHERE DOMESTIC CARS AND TRUCKS WERE BUILT: 1985 MODELS

Place	Models
United States	Cars
	American Motors
Kenosha, WI	Alliance, Encore
	Chrysler Corporation
Belvidere, IL	Omni, Horizon, Charger, Turismo
Jefferson (Detroit), MI	Aries, Reliant, Dodge 600, Caravelle, New Yorker
Newark, DE	Aries, Aries Wagon, Reliant, LeBaron, Chrysler Town & Country Wagon
St. Louis, MO (No. 1)	Reliant, Aries, Dodge 600, LeBaron, Caravelle, Daytona, Laser
St. Louis, MO (No. 2)	Gran Fury, Diplomat, Caravelle*, Fifth Avenue
Sterling Heights, MI	LeBaron GTS, Lancer
†*Built for sale in Canada.	
	Ford Motor Company
Atlanta, GA	LTD, Marquis; 1986 Taurus, Sable (fall, 1985)
Chicago, IL	LTD, Marquis (until early 1986); 1986 Taurus, Sable (early 1986)
Dearborn, MI	Mustang, Capri
Edison, N.J.	Escort, Lynx
Kansas City, MO	Tempo, Topaz
Lorain, OH	Thunderbird, Cougar
Wayne, MI	Escort, Lynx, EXP
Wixom, MI	Lincoln, Mark VII, Continental
	General Motors Corporation
Arlington, TX	Monte Carlo, Cutlass Supreme
Bowling Green, KY	Corvette
Detroit, MI	Cadillac (rwd), Olds 88
Doraville, GA	Cutlass Ciera, Century
Fairfax, KS	Chevrolet, Olds 88, LeSabre, Parisienne
Framingham, MA	Celebrity, Cutlass Ciera
Janesville, WI	Cavalier, Cimarron
Lake Orion, MI	Cadillac (fwd), Olds 98
Lakewood, GA	Chevette, 1000, Acadian
Lansing, MI	Calais, Grand Am, Somerset
Leeds, MO	Cavalier, Firenza, Skyhawk
Linden, NJ	Seville, Riviera, Eldorado, Toronado
Lordstown, OH	Cavalier, Sunbird
Norwood, OH	Camaro, Firebird
Oklahoma City, OK	Celebrity, Century
Pontiac, MI	Fiero; Cutlass Supreme, Regal
Tarrytown, NY	6,000, Century
Van Nuys, CA	Camaro, Firebird
Wentzville, MO	Electra, Olds 98
Willow Run, MI	Citation, Skylark
Wilmington, DE	Chevrolet, Olds 88

TABLE XVI-6. WHERE DOMESTIC CARS AND TRUCKS WERE BUILT: 1985 MODELS (cont.)

Place	Models
United States	Cars
	American Honda Motor Co.
Marysville, OH	Accord
	Volkswagen of America
Westmoreland, PA	Golf
	Nissan Motor Mfg. Co.
Smyrna, TN	Sentra
	GM-Toyota
Fremont, CA	Nova
Canada	
	American Motors
Brampton, Ont.	Eagle
	Ford Motor Company
Oakville, Ont.	Tempo, Topaz, Escort, Lynx
St. Thomas, Ont.	Crown Victoria, Grand Marquis
	General Motors Corporation
Oshawa, Ont. (No. 1)	Cutlas Ciera, 6000
Oshawa, Ont. (No. 2)	Celebrity
Ste. Therese, Que.	Cutlass Supreme, Grand Prix, Bonneville
	Volvo
Halifax, N.S.	Volvo
United States	Trucks
	American Motors
Toledo, OH	Jeep vehicles
	Chrysler Corporation
Warren, MI	Light-duty trucks, Ramcharger
	Ford Motor Company
Kansas City, MO	Light trucks
Kentucky truck (Louisville)	Medium, heavy and extra-heavy trucks
Lorain, OH	Econoline, Club wagon
Louisville, KY	Ranger, Bronco II
Michigan Truck (Wayne)	Bronco, light trucks
Norfolk, VA	Light trucks
St. Louis	Aerostar minivan
Twin Cities	Light trucks

TABLE XVI-6. WHERE DOMESTIC CARS AND TRUCKS WERE BUILT: 1985 MODELS (cont.)

Place	Models
United States	Trucks
	Freightliner Corp.
Mount Holly, NC	Heavy trucks
Portland, OR	Heavy trucks
	General Motors Corporation
Baltimore, MD	Chevrolet Astro, GMC Safari, compact vans
Detroit, MI	Commercial, recreational, specialty vehicle chassis
Flint, MI	Chevrolet, GMC pickups, Blazer, Jimmy, Suburban wagons, CUCV military vehicles
Janesville, WI	Chevrolet, GMC light trucks
Lordstown, OH	Chevrolet, GMC vans
Lorain, OH	Chevrolet S-10 GMC S-15 trucks
Pontiac, MI	Chevrolet, GMC light and medium-duty trucks, GMC heavy trucks, Chevrolet S-10 and GMC S-15 trucks, buses
Shreveport, LA	Chevrolet S-10, GMC S-15 trucks, Blazer, Jimmy
St. Louis	Chevrolet, GMC light trucks
	Kenworth Truck Co.
Chillicothe, OH	Heavy trucks
Kansas City, MO	Heavy trucks
Seattle, WA	Heavy trucks
	International Harvester
Springfield, OH	Medium and heavy trucks
	Mack Trucks, Inc.
Allentown, PA	Heavy trucks
Macungie, PA	Heavy trucks
	Mercedes-Benz Truck Co.
Hampton, VA	Medium trucks
	Nissan Motor Mfg. Co.
Smyrna, TN	Pickup trucks

TABLE XVI-6. WHERE DOMESTIC CARS AND TRUCKS WERE BUILT: 1985 MODELS (cont.)

Place	Models
United States	Trucks
	Peterbilt Motors Co.
Denton, TX	Heavy trucks
Nashville, TN	Heavy trucks
Newark, CA	Heavy trucks
	Volvo White Trucks Corp.
Dublin, VA	Heavy trucks
Ogden, UT	Heavy trucks
Canada	
	Chrysler Corporation
Windsor, Ont.	Dodge Caravan, Plymouth Voyager minivans, Mini Ram Van
Pillete Rd. (Windsor)	Dodge Ram Van, Ram Wagon
	Ford Motor Company
Ontario Truck (Oakville)	Light trucks
	Freightliner of Canada, Ltd.
Burnaby, B.C.	Heavy trucks
	General Motors
Oshawa	Chevrolet, GMC pickups
St. Eustache, Que.	Buses
Scarborough, Ont.	Full-size Chevrolet and GMC vans
	International Harvester
Chatham, Ont.	Medium and heavy trucks
	Mack Trucks, Inc.
Oakville (Ont.)	Heavy trucks

SOURCE: Automotive News, 1985 Market Data Book.

TABLE XVI-7. TOTAL EMPLOYMENT IN THE MOTOR VEHICLE INDUSTRY, NARROWLY DEFINED, MICHIGAN AND THE UNITED STATES: 1956-1985

	Employment		
Year	Michigan (000)	United States (000)	Michigan as a percentage of U.S.
1956	411.7	792.5	52
1957	387.7	769.3	50
1958	288.5	606.5	48
1959	303.4	692.3	44
1960	311.2	724.1	43
1961	268.4	632.3	42
1962	299.2	691.7	43
1963	315.8	741.3	43
1964	329.3	752.9	44
1965	364.5	842.7	43
1966	381.9	861.6	44
1967	361.8	815.8	44
1968	382.8	873.7	44
1969	398.7	911.4	44
1970	335.3	799.0	42
1971	353.6	848.5	42
1972	369.5	874.8	42
1973	401.0	976.5	41
1974	366.1	907.7	40
1975	321.2	792.4	41
1976	357.6	881.0	41
1977	386.5	947.3	41
1978	409.6	1,004.9	41
1979	392.7	990.4	40
1980	326.3	788.8	41
1981	319.4	783.9	41
1982	286.5	690.0	42
1983	299.7	753.7	40
1984	325.0	861.7	38
1985	334.0	876.4	38

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings, March 1985, Table B-2; Supplement to Employment and Earnings (Washington, D.C.: June 1985); and similar documents for previous years.

TABLE XVI-8. GENERAL MOTORS EMPLOYMENT AND DIRECT COMPENSATION IN MANUFACTURING OPERATIONS IN MICHIGAN: 1976-1985

Plant city	Year	Number of employees[a]	Direct compensation[b] ($000)
Adrian-Tecumseh	1976	1,083	21,000
	1977	1,255	26,300
	1978	1,427	26,300
	1979	1,443	33,800
	1980	1,285	30,700
	1981	1,618	44,900
	1982	1,537	44,100
	1983	1,782	57,200
	1984	1,958	73,900
	1985	2,158	95,200
Bay City	1976	3,586	65,950
	1977	3,805	79,979
	1978	3,868	88,330
	1979	3,598	79,917
	1980	2,500	75,900
	1981	2,581	74,400
	1982	2,241	64,600
	1983	2,466	78,200
	1984	2,466	85,900
	1985	2,288	78,200
Coopersville	1983	374	6,200
	1984	470	11,600
	1985	710	20,200
Flint	1976	67,347	1,422,169
	1977	73,562	1,715,752
	1978	76,933	1,865,837
	1979	75,981	1,926,009
	1980	62,200	1,808,800
	1981	65,738	1,800,000
	1982	55,359	1,700,000
	1983	57,990	1,980,000
	1984	61,936	2,350,000
	1985	62,598	2,460,000
Grand Rapids	1976	6,862	133,658
	1977	7,353	156,518
	1978	7,652	173,752
	1979	8,169	203,694
	1980	7,400	191,200
	1981	8,143	222,000
	1982	6,645	181,000
	1983	7,487	234,900
	1984	8,017	297,900
	1985	8,214	336,800

TABLE XVI-8. GENERAL MOTORS EMPLOYMENT AND DIRECT COMPENSATION IN MANUFACTURING OPERATIONS IN MICHIGAN: 1976-1985 (cont.)

Plant city	Year	Number of employees[a]	Direct compensation[b] ($000)
Kalamazoo	1976	3,244	69,902
	1977	3,668	83,858
	1978	3,725	86,952
	1979	3,831	97,967
	1980	2,666	79,600
	1981	3,239	102,800
	1982	2,730	85,900
	1983	3,072	108,500
	1984	3,309	130,500
	1985	3,405	142,600
Lansing	1976	18,796	399,658
	1977	20,558	471,868
	1978	22,225	525,835
	1979	23,432	583,343
	1980	20,500	547,600
	1981	22,793	682,000
	1982	21,378	655,700
	1983	23,126	842,200
	1984	21,431	867,400
	1985	22,815	984,200
Livonia	1976	8,188	149,200
	1977	8,713	171,400
	1978	8,808	180,800
	1979	8,720	195,600
	1980	6,240	168,800
	1981	7,109	197,000
	1982	6,697	204,300
	1983	7,547	246,300
	1984	7,821	283,700
	1985	7,772	311,000
Milford	1976	2,175	41,900
	1977	2,386	48,200
	1978	2,256	53,400
	1979	2,790	74,500
	1980	2,685	73,700
	1981	2,609	79,300
	1982	2,516	83,400
	1983	2,473	88,700
	1984	2,757	98,500
	1985	2,906	119,000
Pontiac	1976	31,367	625,700
	1977	33,220	733,900
	1978	37,212	849,300
	1979	39,200	926,700
	1980	30,500	836,500
	1981	27,704	824,000
	1982	23,949	747,100
	1983	26,275	814,300
	1984	32,948	1,370,000
	1985	35,760	1,420,000

TABLE XVI-8. GENERAL MOTORS EMPLOYMENT AND DIRECT COMPENSATION IN MANUFACTURING OPERATIONS IN MICHIGAN: 1976-1985 (cont.)

Plant city	Year	Number of employees[a]	Direct compensation[b] ($000)
Saginaw	1976	22,661	472,011
	1977	24,307	565,624
	1978	25,765	631,277
	1979	26,127	642,468
	1980	19,500	574,700
	1981	20,755	617,600
	1982	16,831	510,500
	1983	17,503	607,600
	1984	18,982	716,800
	1985	18,932	764,900
Three Rivers	1980	1,055	29,000
	1981	1,840	52,000
	1982	1,919	59,800
	1983	1,935	65,400
	1984	1,933	69,500
	1985	1,996	74,800
Warren	1984	18,279	n.a.
	1985	26,568	1,120,000
Ypsilanti	1976	12,352	238,700
	1977	14,691	300,900
	1978	15,303	357,300
	1979	18,446	459,400
	1980	17,270	470,200
	1981	15,854	448,900
	1982	12,844	354,900
	1983	12,274	369,100
	1984	14,521	498,700
	1985	14,411	553,400
Statewide	1981	228,750	n.a.
	1982	178,264	5,400,000
	1983	201,629	6,540,000
	1984	226,507	8,690,000
	1985	244,201	9,640,000

SOURCE: General Motors Corporation, special release.

NOTE: Separate figures for Detroit are not available. For 1976-1982, figures are estimates that include permanent employees and personnel from other divisions on temporary assignment.

a. Annual averages of monthly wage and salary jobs at GM facilities.

b. Does not include health insurance, pension contributions, supplemental unemployment benefits, unemployment insurance, and other fringe benefits. 1980 direct compensation includes supplemental unemployment benefits.

n.a.: not available.

TABLE XVI-9. NEW PASSENGER CAR AND TRUCK REGISTRATIONS IN MICHIGAN AND THE UNITED STATES, BY NAMEPLATE: 1984 AND 1985

Make	1984		1985	
	Michigan	United States	Michigan	United States
Passenger cars				
AMC[a]	20,728	188,752	14,480	128,318
Chrysler	22,148	321,303	23,072	371,292
Dodge	26,182	359,722	29,812	425,755
Plymouth	19,012	281,897	18,676	324,257
Ford	81,876	1,286,004	85,725	1,364,829
Lincoln	13,431	144,548	11,194	164,295
Mercury	36,644	520,868	32,553	515,895
Buick	63,610	919,904	57,607	851,031
Cadillac	16,730	310,257	16,154	301,228
Chevrolet	87,020	1,546,098	87,500	1,577,349
Oldsmobile	61,382	1,039,774	58,553	1,067,881
Pontiac	59,443	685,361	67,873	785,098
Other[b]	44,729	2,524,241	52,424	3,011,380
TOTAL	552,954	10,128,729	555,623	10,888,608
Motor trucks				
Chrysler Corp.	29,407	504,081	30,483	600,951
Ford	58,364	1,162,834	62,970	1,245,805
Chevrolet	51,020	1,090,178	65,323	1,256,964
G.M.C.	20,374	305,206	25,467	347,577
International	2,258	66,713	1,922	73,463
Jeep truck	5,492	148,292	7,185	182,210
PACCAR	453	26,732	371	24,286
Mack	376	25,617	485	29,514
Volvo-White	196	10,797	276	14,796
Other[b]	7,927	708,548	9,901	899,626
TOTAL	176,165	4,048,998	204,283	4,675,192

SOURCE: Compiled from data supplied by R.L. Polk & Company. Further reproduction not authorized without the express permission of R.L. Polk & Company.

[a] Passenger cars manufactured by American Motors Corporation.

[b] Domestic and foreign.

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1980-1985

County	1980	1981	1982	1983	1984	1985
			Passenger cars			
Alcona	328	353	281	370	365	345
Alger	208	261	177	253	277	235
Allegan	2,142	2,090	1,522	1,958	2,196	2,350
Alpena	940	882	654	825	1,009	990
Antrim	458	409	371	513	577	594
Arenac	512	526	396	564	561	519
Baraga	306	306	192	272	277	271
Barry	1,166	1,080	890	1,220	1,297	1,386
Bay	4,168	4,126	3,147	4,049	4,552	4,721
Benzie	329	345	290	356	391	384
Berrien	6,014	5,534	4,866	6,500	8,012	7,527
Branch	1,109	1,045	838	1,133	1,270	1,153
Calhoun	4,333	4,333	3,549	4,533	4,982	5,064
Cass	1,259	1,280	1,045	1,523	1,524	1,441
Charlevoix	687	668	560	758	769	784
Cheboygan	561	525	454	571	681	676
Chippewa	893	867	585	712	737	736
Clare	811	849	717	815	872	911
Clinton	1,524	1,591	1,320	1,841	1,873	1,867
Crawford	305	272	239	365	393	427
Delta	968	1,039	857	1,066	1,101	1,130
Dickinson	834	753	526	826	921	858
Eaton	2,476	2,618	2,037	2,896	3,056	3,055
Emmet	871	851	654	856	933	965
Genesee	22,534	23,047	20,332	27,459	29,797	30,003
Gladwin	736	682	535	718	714	663
Gogebic	558	487	389	475	459	440
Grand Traverse	2,272	2,245	1,910	2,476	2,804	3,043
Gratiot	1,284	1,241	929	1,201	1,308	1,271
Hillsdale	1,025	1,079	850	1,115	1,258	1,134
Houghton	907	861	716	819	872	807
Huron	1,346	1,341	985	1,238	1,395	1,326
Ingham	14,418	14,721	13,553	17,116	19,330	19,487
Ionia	1,606	1,537	1,156	1,625	1,795	1,704
Iosco	989	927	872	1,183	1,149	1,140
Iron	478	444	322	474	473	438
Isabella	1,187	1,291	1,080	1,336	1,378	1,454
Jackson	4,932	4,966	3,896	5,321	5,805	5,737
Kalamazoo	8,584	8,123	6,962	8,656	9,232	9,590
Kalkaska	307	260	257	327	349	408

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1980-1985 (cont.)

County	1980	1981	1982	1983	1984	1985
Kent	20,147	18,832	15,866	20,579	23,304	24,638
Keweenaw	65	50	53	57	71	48
Lake	185	167	143	180	204	208
Lapeer	2,513	2,566	1,941	2,764	3,426	3,477
Leelanau	355	327	332	423	407	437
Lenawee	3,105	3,042	2,380	3,301	4,027	4,019
Livingston	3,933	4,155	3,315	4,639	4,971	5,295
Luce	204	162	136	206	165	169
Mackinac	327	317	253	320	331	351
Macomb	46,314	47,491	41,167	50,107	58,809	65,314
Manistee	699	735	548	697	785	715
Marquette	2,287	2,531	1,938	2,692	2,576	2,609
Mason	778	753	574	726	748	749
Mecosta	950	906	679	926	999	1,116
Menominee	627	564	451	593	711	722
Midland	2,913	2,961	2,466	3,022	3,052	3,031
Missaukee	293	293	232	314	342	321
Monroe	4,044	4,500	4,005	4,975	5,414	5,508
Montcalm	1,650	1,651	1,236	1,670	1,785	1,746
Montmorency	270	276	255	300	340	344
Muskegon	4,960	4,410	3,405	4,261	4,859	4,928
Newaygo	1,021	930	765	945	994	1,005
Oakland	75,764	75,490	66,959	88,963	100,178	104,282
Oceana	731	616	454	583	590	610
Ogemaw	508	463	418	543	531	553
Ontonagon	363	309	234	268	292	298
Osceola	603	632	535	644	718	704
Oscoda	135	151	164	172	176	198
Otsego	638	611	503	739	756	810
Ottawa	6,022	5,947	4,621	5,816	6,546	6,477
Presque Isle	409	434	306	395	455	419
Roscommon	682	715	669	813	905	970
Saginaw	9,067	9,335	7,765	10,446	12,316	11,701
St. Clair	4,345	4,377	3,597	4,347	5,462	5,551
St. Joseph	1,946	1,867	1,466	1,920	2,376	2,113
Sanilac	1,348	1,279	926	1,222	1,493	1,447
Schoolcraft	327	295	230	277	276	296
Shiawassee	2,664	2,821	2,113	3,026	3,107	3,253
Tuscola	2,156	2,162	1,525	2,166	2,368	2,261
Van Buren	2,156	1,965	1,541	1,883	2,040	2,115

TABLE XVI-4. FACTORY SALES OF MOTOR VEHICLES FROM CANADIAN AND U.S. PLANTS, BY CANADIAN, U.S., AND OTHER DESTINATIONS: 1970-1985 (cont.)

	Plants in United States				Plants in Canada				
Year	Exports to Canada	Other Exports	U.S. Domestic	U.S. Total	Exports to U.S.	Other Exports	Canada Domestic	Canada Total	U.S.-Canada Total
				Trucks and buses (cont.)					
1975	133,701	135,701	2,002,758	2,272,160	181,165	47,742	161,158	390,065	2,662,225
1976	128,524	116,855	2,733,670	2,979,049	265,623	44,065	188,226	497,914	3,476,963
1977	135,078	127,423	3,179,020	3,441,521	347,592	47,278	210,614	605,484	4,047,005
1978	138,970	151,621	3,415,648	3,706,239	396,935	51,195	214,169	662,299	4,368,538
1979	158,394	137,231	2,741,081	3,036,706	348,231	43,861	240,983	633,075	3,669,781
1980	86,420	117,055	1,463,808	1,667,283	290,529	47,228	188,211	525,968	2,193,251
1981	89,030	98,282	1,513,140	1,700,452	303,646	58,567	152,313	514,526	2,214,978
1982	70,552	56,707	1,778,181	1,905,440	371,691	15,530	69,503	456,724	2,362,164
1983	106,237	47,474	2,260,186	2,413,897	442,167	10,388	93,000	545,555	2,959,452
1984	150,313	40,679	2,884,133	3,075,325	667,980	8,326	133,906	810,212	3,852,790
1985	197,903	32,828	3,126,174	3,356,905	677,998	7,706	168,270	853,974	4,210,879
				Total motor vehicles					
1970	299,392	186,878	7,752,987	8,239,257	839,404	62,856	269,051	1,171,311	9,419,568
1971	421,156	180,560	10,036,022	10,637,738	946,076	67,578	341,141	1,354,795	11,992,533
1972	476,916	146,988	10,646,841	11,270,745	1,041,035	60,516	353,566	1,455,117	12,725,862
1973	596,562	175,111	11,865,662	12,637,335	1,077,667	68,419	435,480	1,581,566	14,218,901
1974	667,977	199,672	9,190,920	10,058,569	991,265	92,051	465,026	1,548,342	11,606,911
1975	683,054	225,900	8,076,058	8,985,012	894,572	105,891	432,847	1,433,310	10,418,322
1976	691,159	214,022	10,571,471	11,476,652	1,074,411	119,396	438,751	1,632,558	13,109,210
1977	721,151	229,731	11,691,488	12,642,370	1,179,586	134,426	447,173	1,761,185	14,403,555
1978	680,522	281,696	11,909,211	12,871,429	1,161,770	158,232	469,870	1,789,872	14,661,301
1979	740,491	296,222	10,419,219	11,455,932	930,617	136,589	539,043	1,606,249	13,062,181
1980	575,277	187,919	7,304,113	8,067,309	829,768	133,525	389,799	1,353,092	9,420,401
1981	543,597	149,680	7,262,515	7,955,792	820,076	160,662	305,925	1,286,663	9,242,455
1982	390,844	89,196	6,474,584	6,954,624	1,033,705	28,159	177,349	1,239,213	8,193,837
1983	611,499	80,051	8,461,570	9,153,120	1,215,548	29,782	245,972	1,491,302	10,644,422
1984	712,207	70,239	9,913,855	10,696,501	1,498,427	30,016	296,971	1,825,414	12,489,168
1985	833,449	62,806	10,629,909	11,359,164	1,556,050	13,584	352,760	1,922,394	13,058,310

SOURCE: Motor Vehicle Manufacturers Association of the United States, Inc., special release.

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1980-1985 (cont.)

County	1980	1981	1982	1983	1984	1985
Washtenaw	11,325	11,612	10,497	12,584	14,698	14,433
Wayne	131,958	129,433	105,322	136,170	159,851	150,906
Wexford	830	827	563	804	879	907
State owned	1,416	943	1,183	1,266	1,877	1,534
TOTAL	448,071	445,758	374,643	485,062	552,954	555,623
			Trucks			
Alcona	109	73	110	148	183	211
Alger	122	82	102	139	184	198
Allegan	775	601	647	947	1,307	1,467
Alpena	320	228	259	377	546	666
Antrim	161	114	129	231	319	336
Arenac	143	140	188	241	314	334
Baraga	104	92	110	149	175	202
Barry	382	270	344	578	785	876
Bay	924	813	1,057	1,545	1,935	2,365
Benzie	90	75	110	168	215	195
Berrien	1,530	1,233	1,559	2,083	3,006	3,390
Branch	466	419	430	572	685	760
Calhoun	1,026	877	1,063	1,463	1,838	2,285
Cass	406	404	493	877	891	903
Charlevoix	204	132	193	359	398	466
Cheboygan	141	132	187	273	342	401
Chippewa	282	246	285	390	462	580
Clare	282	276	330	441	483	609
Clinton	435	397	519	923	935	1,162
Crawford	110	73	113	196	272	285
Delta	314	290	399	556	659	741
Dickinson	321	281	248	436	519	623
Eaton	736	559	799	1,278	1,499	1,905
Emmet	230	165	215	358	544	585
Genesee	3,566	3,290	4,299	6,795	8,538	11,241
Gladwin	220	210	247	354	449	508
Gogebic	223	179	178	262	301	267
Grand Traverse	772	673	735	991	1,506	1,772
Gratiot	364	330	365	550	651	786
Hillsdale	347	292	321	530	555	671
Houghton	286	177	200	368	402	420
Huron	411	378	341	507	643	647
Ingham	2,513	2,012	2,488	4,051	5,408	6,928
Ionia	522	462	501	799	930	1,144
Iosco	257	198	266	405	511	651

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1980-1985 (cont.)

County	1980	1981	1982	1983	1984	1985
Iron	234	126	173	315	339	322
Isabella	433	446	455	683	707	877
Jackson	1,257	991	1,170	1,735	2,259	2,554
Kalamazoo	1,697	1,399	1,552	2,439	2,975	3,565
Kalkaska	212	209	240	256	316	311
Kent	4,362	3,212	4,096	6,615	9,329	10,385
Keweenaw	25	6	14	25	30	25
Lake	72	68	58	78	122	155
Lapeer	650	530	735	1,183	1,941	2,700
Leelanau	93	73	107	149	224	270
Lenawee	778	656	878	1,261	1,656	1,935
Livingston	810	718	964	1,548	1,910	2,422
Luce	95	58	84	148	139	142
Mackinac	104	91	117	162	184	249
Macomb	7,984	8,086	9,408	12,449	17,001	20,840
Manistee	224	153	249	319	426	437
Marquette	760	665	683	1,100	1,385	1,564
Mason	239	169	228	297	373	407
Mecosta	312	299	361	482	528	647
Menominee	232	169	151	235	368	347
Midland	563	529	684	1,016	1,237	1,390
Missaukee	152	143	122	204	236	280
Monroe	973	940	1,272	1,711	2,180	2,460
Montcalm	546	476	589	862	1,037	1,161
Montmorency	92	61	95	151	196	208
Muskegon	1,258	938	962	1,656	2,337	2,414
Newaygo	327	299	338	444	572	639
Oakland	8,951	7,874	10,086	15,964	24,217	31,671
Oceana	281	183	209	283	335	395
Ogemaw	190	162	205	282	352	398
Ontonagon	153	121	105	143	157	203
Osceola	252	255	288	360	437	546
Oscoda	54	40	72	82	118	132
Otsego	234	208	218	344	454	491
Ottawa	1,435	1,198	1,421	2,246	3,129	3,312
Presque Isle	156	130	145	182	263	290
Roscommon	236	188	229	314	415	500
Saginaw	1,880	1,631	1,990	3,164	4,163	5,287
St. Clair	1,009	923	1,019	1,449	2,233	2,607
St. Joseph	649	544	662	952	1,120	1,210

TABLE XVI-10. NEW PASSENGER CAR AND NEW TRUCK REGISTRATIONS IN MICHIGAN, BY COUNTY: 1980-1985 (cont.)

County	1980	1981	1982	1983	1984	1985
Sanilac	430	351	377	507	689	864
Schoolcraft	136	105	119	184	205	244
Shiawassee	676	644	683	1,183	1,451	1,882
Tuscola	649	567	653	1,051	1,242	1,519
Van Buren	745	593	600	908	1,037	1,133
Washtenaw	1,797	1,567	2,131	3,013	4,124	4,816
Wayne	19,891	16,783	23,768	25,711	40,427	40,306
Wexford	238	226	247	324	456	521
State owned	770	453	307	569	744	670
TOTAL	83,620	72,429	91,159	127,078	175,421	204,283

SOURCE: R.L. Polk & Co., Motor Statistical Division, special release.

XVII. TRANSPORTATION

The Interstate Commerce Commission in its various publications, especially Transport Statistics in the United States, gives extensive information about railroads. The Association of American Railroads also collects railway statistics.

Data on the Michigan highway system are obtained from the reports of the Michigan State Highway Commission. Information on drivers' licenses and the registration of motor vehicles is given in the reports of the Michigan Department of State. The Michigan Department of State Police collects statistics on the number of motor vehicle traffic accidents in Michigan. The Bureau of Public Roads of the U.S. Department of Commerce publishes an annual report, Highway Statistics, that gives a great deal of information about the nation's public roads.

The Federal Aviation Agency releases a number of publications, including the FAA Statistical Handbook of Aviation, FAA Air Traffic Activity, and Census of U.S. Civil Aircraft, which contain a wealth of information pertaining to aviation activities.

Information regarding freight traffic on Michigan waterways can be found in Waterborne Commerce of the United States, a publication of the Corps of Engineers of the U.S. Department of the Army.

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TABLE XVII-1. DISTRIBUTION OF MICHIGAN TRANSPORTATION FUND, FISCAL YEARS: 1963-1985

(Millions of dollars)

Fiscal year	State trunkline fund	Comprehensive transportation fund	Counties	Munici-palities	Total
1963	106	--	79	41	226
1964	111	--	83	43	237
1965	118	--	88	45	251
1966	125	--	93	48	266
1967	129	--	96	50	309
1968[a]	148	--	104	57	309
1969	164	--	122	71	357
1970	175	--	129	76	380
1971	181	--	134	79	394
1972[b]	193	--	143	84	420
1973	215	18	164	94	491
1974	231	21	185	103	540
1975	228	22	183	102	537
1976[c]	277	27	223	125	652
1977	246	23	198	110	578
1978	249	24	201	112	586
1979[d]	272	59	245	136	712
1980[e]	260	56	236	131	684
1981	239	52	217	121	628
1982	231	50	210	117	608
1983	247	65	231	124	667
1984	278	79	280	157	794
1985	301	87	301	169	865

SOURCE: The Michigan State Transportation Commission, special release.

a. Change in registration fees and motor fuel taxes.
b. Change in gasoline tax.
c. Covers 7/1/75 to 9/30/76.
d. Change in motor fuel taxes.
e. Change in diesel fuel tax.

NOTE: Following is a chronology of Michigan motor vehicle taxes and fees.

1905 - Public Act 196 of 1905 - License Plates
Rate: $2.00 per automobile (not annually).
Manufacturers get duplicates at 50 cents each.
License transfers are $1.00 each.
Chauffeurs pay $1.00 for an operator's license.
Disposition: After deduction of administrative charges, the balance is to be applied to furthering good roads for the benefit of the State at large.

1907 - Public Act 304 of 1907. Change in fees.
Rate: $1.00 per car and 50 cents for annual renewals.
Transfers are $1.00.
Manufacturers pay $5.00 for five sets of plates and 50 cents for duplicates.

NOTE: (cont.)

1909 - Public Act 318 of 1909. Change in fees.
Rate: $3.00 per car annually and $1.00 for duplicates.
Transfers are $1.00.
Manufacturer pays $10.00 for first plates and $2.00 for each duplicate set.
Chauffeurs pay $2.00 annually.
Disposition: To State General Fund.

1916 - Public Act 302 of 1915. Effective January 1, 1916. Change in fees.
Rate: Cars operated by gas or steam - 25 cents per horsepower plus 25 cents per 100 pounds of weight. Electric cars, $1.00 per horsepower plus 25 cents per 100 pounds. Trucks, gas or steam, 15 cents per horsepower plus 15 cents per 100 pounds. Trucks, electric, 50 cents per horsepower and 25 cents per 100 pounds.
Duplicate plates $1.00.
Annual renewals required at same rates as above.
Manufacturers or dealers pay $50.00 for the first five cars, and $10.00 each thereafter.
Transfers $1.00 each.
Disposition: To the counties, 50% of the license plate fees, divided in proportion to their origin. Balance to State Highway Department.

1919 - Public Act 383 of 1919. Change in fees.
Rate: Changed to 25 cents per horsepower plus 35 cents per 100 pounds on all classes of automobiles.
Public Act 368 of 1919. Operators License Act.
Rate: 50 cents for license to drive
Disposition: To General Fund.

1925 - Public Act 1 of 1925. Change in fees.
Rate: Passenger cars - 55 cents per 100 pounds of weight.
Trucks - 65 cents per 100 pounds up to 2,500 pounds.
80 cents per 100 pounds from 2,500 to 4,000 pounds.
$1.00 per 100 pounds from 4,000 to 6,000 pounds.
$1.25 per 100 pounds over 6,000 pounds.
Trailers - 50 cents and $1.00. Motorcycles $5.00. Motor bicycles $2.50, transfers $1.00.
Disposition: $6,000,000 of weight tax to counties on basis of origin. Balance to State Highway Fund.

1925 - Public Act 2 of 1925. Gasoline Tax.
Rate: Two cents per gallon on gasoline used by motor vehicles.
Disposition: All to State Highway Department except $1,500,000 to counties in 1925 and $2,000,000 to counties in 1926 and annually thereafter.

1927 - Public Act 150 of 1927. Change in Gasoline Tax.
Rate: 3 cents per gallon.
Disposition: To counties $2,000,000 per year. Also an amount equal to 1/2 the weight tax, minus $6,000,000. This is divided, 7/8 on the basis of origin of the weight tax and 1/83 of 1/8 to each county. $2,000 per mile of city and village trunkline maintenance. Balance to State Highway Fund.

NOTE: (cont.)
1931 - Publc Act 130 of 1931. McNitt Act.
Apportions to counties for maintenance and improvement of McNitt Roads, payable out of gas tax.
1932 - $2,000,000
1933 - $2,500,000
1934 - $3,000,000
1935 - $3,500,000
1936 - $4,000,000 and annually thereafter.
Public Act 91 of 1931. Change in operator's and chauffeur's licenses.
Rate: $1.00 for operators, $2.00 for chauffeurs. Operator license renewal every three years. Chauffeurs license renewable annually.
1934 - Public Act 7 of 1934. Change weight tax.
Rate: Passenger cars 35 cents per 100 pounds.
Trucks 65 cents up to 2,500 pounds.
80 cents up to 2,500 to 4,000 pounds.
$1.00 - 4,000 to 6,000 pounds.
$1.25 - over 6,000 pounds.
Disposition: To counties 100 percent.
1947 - Public Act 319 of 1947. Diesel fuel tax.
Diesel fuel tax at 5 cents per gallon.
Disposition: To State Highway Fund.
1951 - Public Act 54 of 1951. Change in fuel tax rates.
Gasoline tax increased to 4-1/2 cents per gallon.
Diesel Fuel tax increased to 6 cents per gallon.
Disposition: To Motor Vehicle Highway Fund
Distribution: 37 percent to counties
19 percent to cities.
44 percent to State Trunkline Fund
Public Act 55 of 1951. Change registration fees.
Rate: Trucks - 65 cents per 100 pounds for 0-2,500 pounds to $2.00 per 100 pounds for over 15,000 pounds.
Road Tractor or truck tractor - 65 cents per 100 pounds for 0-2,500 pounds to $2.00 per 100 pounds for over 10,000 pounds.
1953 - Public Act 147 of 1953. Liquid Petroleum Gasoline tax rate.
Liquid Petroleum Gasoline taxed at 4-1/2 cents per gallon.
Disposition: To Motor Vehicle Highway Fund.
1967 - Public Act 3 of Extra Session of 1967. Changes registration fees.
Rate: Automobiles - 55 cents per 100 pounds. Minimum fee of $12.00.
Trucks - from 80 cents per 100 pounds for 0-2,500 pounds to $2.50 per 100 pounds for 15,000 pounds and over.
Road or truck tractor - elected gross weight from $150 for 0-24,000 pounds to $980 for 130,000 pounds and over.
Disposition: To Motor Vehicle Highway Fund.
1967 - Public Act 5 of Extra Session of 1967. Change fees.
Gasoline tax increased to 7 cents per gallon.
Diesel Fuel tax increased to 7 cents per gallon.
Liquid Petroleum Gasoline tax increased to 7 cents per gallon.
1969 - Public Act 309 of 1969. Change fees.
Rate: Road or truck tractor - elected gross weight.
From $243 for 0-24,000 pounds to $1,660 for 160,001 pounds and over.
Disposition: Motor Vehicle Highway Fund.

NOTE: (cont.)

1972 - Public Act 327 of 1972. Change fees.
Gasoline tax increased to 9 cents per gallon
Liquid Petroleum Gasoline tax increased to 9 cents per gallon.
Diesel tax stays at 7 cents.
Disposition: To Motor Vehicle Highway Fund.

1978 - Public Act 426 of 1978. Effective January 1, 1979. Change in fees.
Gasoline tax increased to 11 cents per gallon.
Diesel Fuel tax increased to 9 cents per gallon.

1978 - Public Act 427 of 1978. Changes in fees.
Rate: Automobile registration from $20 for 0-3,000 pounds to $74 for 10,000 pounds and 74 cents per 100 pounds over 10,000 pounds. Trucks - from $1.08 per 100 pounds for 0-2,500 pounds to $3.38 per 100 pounds for 15,001 pounds and over. Road or truck tractor - elected gross weight. From $243 for 0-24,000 pounds to $1,660 for 160,001 pounds and over.
Disposition: To Michigan Transportation Fund
Distribution: 19 percent to cities and villages
34.3 percent to counties
46.7 percent to Department of Transportation
(17.78 percent to comprehensive Transportation)
(82.22 percent to Trunkline Fund)

1980 - Public Acts 117, 118, 119, of 1980. Change in fees.
Diesel Fuel tax increased to 11 cents per gallon.
Motor carrier may receive 6 cents per gallon discount by purchasing permit ($92 for Michigan resident - $12 for non-resident)
Carriers not purchasing diesel fuel in Michigan must report and pay a road tax equivalent to the 5 cents tax paid by carriers licensed within the State. Provisions sunset on May 1, 1981.
Continued by Public Act 16 of 1981, Public Act 128 of 1982.
Sunset repealed by Public Act 441 of 1982.

Public Act 153 of 1980. Change in fees.
Rate: Reduces truck GVW fee for 145,001-160,000 pounds from $1,512.00 to $1,479.00 and over 160,000 pounds from $1,660.00 to $1,594.00.

Public Act 333 of 1980. Gasohol Tax rate.
Gasohol (as defined) taxed at 6 cents per gallon from December 23, 1980 through December 31, 1982, at 8 cents for 1983 calendar year, at 9 cents for 1984 calendar year, and 11 cents for 1985 calendar year and thereafter.

1982 - Public Act 435 of 1982. Gasohol Tax rate.
Gasohol taxed at 6 cents per gallon through 1984 calendar year, 8 cents for 1985 calendar year, 9 cents for 1986 calendar year and 11 cents for 1987 and thereafter.
Public Act 437 of 1982. Change in tax rate.
Effective January 1, 1983, tax rate for all fuels shall be a minimum of 11 cents per gallon or the tax rate calculated using the Federal maintenance figure for the most recent preceding calendar year divided by the 1980 maintenance index figure, times the gallonage figure for the year ending September 30, 1980 divided by the gallonage figure for the fiscal year preceding the year for which the tax is being calculated, times 12 cents. Beginning January 1, 1985, the tax rate shall remain as the tax rate imposed on December 31, 1984.

Gasohol Tax rate revised. Rate imposed for gasohol blended with alcohol from Michigan or a state with an equivalent tax reduction - through December 31, 1984 - five cents less than the motor fuel tax rate, three cents less in calendar 1985 and two cents less in 1986. Effective April 1, 1983, rate reduced to four cents less through December 31, 1984 and two cents less for 1985, due to imposition of federal tax on gasohol. Gasohol tax rate for gasohol blended with alcohol from state without equivalent tax reduction - through December 31, 1984 - one cent less then the motor fuel tax rate.

Disposition: To Michigan Transportation Fund.

Public Act 438 of 1982. Revision of Distribution of Michigan Transportation fund. Total of revenues to Michigan Transportation Fund - Less: Administrative costs, 1.023% of net Gasoline Tax to Waterways Fund, $3.5 million to Mackinac Bridge Authority, 10% of the balance to the Comprehensive Transportation Fund, and $5.0 million to the Critical Bridge Fund. The balance is distributed to the State Trunkline Fund, 41.9% for January 1, 1983 - September 30, 1983 and 39.1 percent for October 1, 1983 - September 30, 1985, to County Road Commissions, 37.4% for January 1, 1983 - September 30, 1983 and 39.1 percent for October 1, 1983 - September 30, 1985, to Cities and Villages, 20.7% for January 1, 1983 - September 30, 1983 and 21.8 percent for October 1, 1983 - September 30, 1985. Distribution after September 30, 1985 to be determined by study.

1982 - Public Act 439 of 1982. Change in fees.

Rate: Passenger registrations on weight tax schedule from $23.00 for 0-3,000 pounds to $85.00 for 9,501-10,000 pounds and .85 per 100 pounds over 10,000 pounds. Trucks from $1.40 per 100 pounds for 0-2,500 pounds to $4.39 per 100 pounds for 15,001 pounds and over. Road or truck tractor - elected gross weight - from $316.00 for 0-24,00 pounds to $2,072 over 160,000 pounds.

Effective October 1, 1983, new vehicles other than commercial to be registered at .4% of the purchase price for the first year and on a descending scale of 90% of the previous year's rate for the second, third and fourth year. After the fourth year, the rate remains constant.

Disposition: To Michigan Transportation Fund.

1983 - Public Act 165 of 1982. Change in fees.

Rate: After September 30, 1983, each passenger vehicle of the 1984 of subsequent model year is taxes for the first year on basis of list price at $30 for $0-$6,000 list price to $148.00 for $29,000-$30,000 list price. More than $30,000 list price taxed at 0.5% of the list price. Second, third, and fourth year taxed at 90% of the previous year's rate. After the fourth year, the rate remains constant.

The Comprehensive Transportation Fund, for bus and rail programs, also receives a portion of sales tax revenues on auto-related products. In Fiscal 1984-85, this totaled $41.35 million.

Motor fuel tax raised from 11 to 13 cents a gallon in 1983, to 15 cents in 1984.

TABLE XVII-3. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE AND COUNTY: FISCAL YEAR ENDING 30 SEPTEMBER 1985

County	Passenger	Commercial	Trailer	Motorcycle	Total
Alcona	5,948	2,498	1,599	250	10,295
Alger	4,300	2,258	1,072	293	7,923
Allegan	44,656	17,050	9,173	2,650	73,529
Alpena	17,056	7,196	4,319	677	29,248
Antrim	9,671	3,626	2,437	535	16,269
Arenac	7,817	3,568	2,153	330	13,868
Baraga	3,894	1,924	808	167	6,793
Barry	24,407	9,525	5,587	1,673	41,192
Bay	66,055	18,068	14,667	2,789	101,579
Benzie	6,726	2,585	1,726	378	11,415
Berrien	92,793	26,295	14,061	4,401	137,550
Branch	20,831	8,363	5,310	1,326	35,830
Calhoun	78,375	20,559	12,810	4,007	115,751
Cass	25,648	10,013	4,950	1,456	42,067
Charlevoix	11,611	4,408	2,644	600	19,263
Cheboygan	11,728	4,766	3,086	640	20,220
Chippewa	13,381	6,171	3,520	621	23,693
Clare	12,800	5,577	3,366	598	22,341
Clinton	30,077	10,389	6,520	1,771	48,757
Crawford	5,441	2,387	1,417	227	9,472
Delta	20,567	8,865	5,181	1,083	35,696
Dickinson	14,672	6,361	3,700	767	25,500
Eaton	48,774	14,379	9,446	2,784	75,383
Emmet	14,330	5,343	2,828	676	23,177
Genesee	263,635	57,604	38,219	10,759	370,217
Gladwin	10,797	4,665	3,129	535	19,126
Gogebic	8,992	3,911	1,945	395	15,243
Gd. Traverse	37,245	11,116	8,143	1,675	58,179
Gratiot	20,990	7,775	5,019	1,245	35,029
Hillsdale	21,694	8,995	4,884	1,434	37,007
Houghton	15,882	5,449	2,378	747	24,456
Huron	20,622	8,707	4,941	1,090	35,360
Ingham	158,914	33,743	19,061	7,378	219,096
Ionia	26,051	9,567	5,470	1,634	42,722
Iosco	16,409	5,716	4,084	821	27,030
Iron	7,199	3,736	1,860	320	13,115
Isabella	22,477	8,317	4,775	1,275	36,844
Jackson	81,308	22,539	13,501	3,943	121,291
Kalamazoo	124,779	27,405	16,734	5,639	174,557
Kalkaska	6,442	3,824	2,092	407	12,765

TABLE XVII-2. EXISTING MUNICIPAL AND RURAL ROAD MILEAGE, BY TYPE AND BY GOVERNMENTAL LEVEL WITH PRIMARY JURISDICTION, MICHIGAN AND THE UNITED STATES: 1975-1984

Year	Municipal	Rural						Total rural and municipal
		Type			Governmental level with primary jurisdiction			
		Surfaced	Non-surfaced	Total	State	Local	Federal[a]	
Michigan								
1975	19,982	82,771	16,037	98,808	8,300	88,048	2,460	118,790
1976	20,053	83,624	15,321	98,945	8,316	88,169	2,460	118,998
1977	20,097	48,062[b]	51,006[b]	99,068	8,336	88,272	2,460	119,165
1978	20,190	48,264	50,905	99,169	8,345	88,364	2,460	119,359
1979	20,274	49,993	49,813	99,806	8,800	88,546	2,460	120,080
1980	22,257	n.a.	n.a.	91,979	7,739	84,240	0	117,236
1981	25,120	n.a.	n.a.	92,276	7,715	84,561	0	117,396
1982	25,145	n.a.	n.a.	92,280	7,697	84,583	0	117,425
1983	25,193	n.a.	n.a.	92,274	7,697	84,577	0	117,467
1984	25,230	n.a.	n.a.	92,313	7,736	84,577	0	117,543
United States								
1975	639,550	2,483,355	715,241	3,198,596	710,797	2,260,544	227,255	3,838,146
1976	648,321	2,508,903	700,132	3,209,035	711,406	2,263,788	233,841	3,857,356
1977	687,328	2,498,428	681,411	3,179,839	702,215	2,235,670	242,147	3,867,400[c]
1978	694,655	2,534,409	655,999	3,190,408	704,421	2,255,526	230,850	3,885,452
1979	694,274	2,498,282	725,428	3,223,710	697,821	2,281,353	244,371	3,917,819
1980	624,053	n.a.	n.a.	3,331,334	701,846	2,269,770	262,010	3,955,387
1981	632,013	n.a.	n.a.	3,220,684	725,850	2,236,344	256,257	3,852,697
1982	640,556	n.a.	n.a.	3,225,740	825,385	2,139,790	260,565	3,866,296
1983	662,350	n.a.	n.a.	3,217,288	817,206	2,137,960	262,122	3,879,638
1984	673,685	n.a.	n.a.	3,218,096	817,813	2,133,888	266,395	3,891,781

SOURCE: Federal Highway Administration, Highway Statistics, 1975 through 1984 (Washington, D.C.: annually), Tables HM-10 (1984).

a. Comprises mileage of roads not forming a part of state or local highway systems.

b. The decrease in surfaced roads in Michigan is due to the surface type reclassification of approximately 36,000 miles of county roads.

TABLE XVII-3. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE AND COUNTY: FISCAL YEAR ENDING 30 SEPTEMBER 1985 (cont.)

County	Passenger	Commercial	Trailer	Motorcycle	Total
Kent	286,093	65,167	45,295	12,537	409,092
Keweenaw	1,033	388	201	40	1,662
Lake	4,032	1,963	1,058	145	7,198
Lapeer	37,467	13,593	7,360	2,288	60,708
Leelanau	8,581	3,042	2,230	368	14,221
Lenawee	49,064	16,168	9,296	2,588	7,116
Livingston	59,894	16,435	9,884	2,798	89,011
Luce	2,973	1,608	1,105	111	5,797
Mackinac	5,170	2,477	1,411	276	9,334
Macomb	484,890	69,879	45,727	12,783	613,279
Manistee	12,507	4,751	2,903	572	20,733
Marquette	34,458	12,924	6,315	2,052	55,749
Mason	14,059	5,359	3,231	825	23,474
Mecosta	15,458	6,178	3,510	761	25,907
Menominee	13,471	5,690	3,508	798	23,467
Midland	44,898	10,819	9,321	2,068	67,106
Missaukee	5,619	3,068	1,626	263	10,576
Monroe	74,495	21,268	13,811	3,837	113,411
Montcalm	25,686	10,200	6,294	1,387	43,567
Montmorency	4,436	2,157	1,354	204	8,151
Muskegon	89,800	23,025	15,741	5,103	133,669
Newaygo	18,612	8,099	4,771	1,256	32,738
Oakland	715,184	107,511	64,775	18,784	906,254
Oceana	11,363	5,225	2,391	633	19,612
Ogemaw	9,342	4,642	2,708	440	17,132
Ontonagon	4,609	2,256	1,290	225	8,380
Osceola	10,097	4,656	2,369	510	17,632
Oscoda	4,093	2,052	1,165	191	7,501
Otsego	9,022	3,877	2,163	455	15,517
Ottawa	96,133	25,546	20,255	5,082	147,016
Presque Isle	7,131	3,513	1,994	312	12,950
Roscommon	11,251	4,054	3,122	439	18,866
Saginaw	128,532	28,997	21,609	4,427	183,565
St. Clair	79,425	21,237	12,246	3,383	116,291
St. Joseph	31,564	11,490	6,299	1,979	51,332
Sanilac	20,968	8,328	4,186	1,136	34,618
Schoolcraft	4,212	2,126	1,307	237	7,882
Shiawassee	38,644	12,926	7,550	2,249	61,369
Tuscola	29,652	12,302	7,744	1,715	51,413
Van Buren	34,502	12,957	6,043	1,893	55,395

TABLE XVII-3. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE AND COUNTY: FISCAL YEAR ENDING 30 SEPTEMBER 1985 (cont.)

County	Passenger	Commercial	Trailer	Motorcycle	Total
Washtenaw	150,175	27,249	14,208	5,811	197,443
Wayne	1,259,235	174,772	99,225	29,349	1,562,581
Wexford	14,071	5,200	3,405	690	23,366
Nonresident	33,871	12,955	15,454	230	62,510

SOURCE: Michigan Department of State, special release.

TABLE XVII-4. MOTOR VEHICLE REGISTRATION IN MICHIGAN, BY TYPE: 1980-1985

Type	1980	1981	1982	1983	1984	1985
Passenger	5,220,972	4,848,924	5,075,091	5,101,748	5,143,379	5,430,766
Commercial	1,095,634	1,047,504	1,095,057	1,121,822	1,153,200	1,223,372
Trailer	760,533	721,381	778,374	726,510	730,790	756,075
Motorcycle	254,129	243,858	230,794	219,929	212,613	203,226
TOTAL	7,331,268	6,861,667	7,179,316	7,170,009	7,239,982	7,613,439

SOURCE: Michigan Department of State, special release.

TABLE XVII-5. MOTOR VEHICLE ACCIDENTS AND MILEAGE AND DEATH RATE IN MICHIGAN: 1947-1984

Year	Deaths	Injuries	Accidents	Estimated mileage (millions)	Death rate[a]
1947	1,447	38,195	137,619	17,661.1	8.2
1948	1,512	40,892	140,172	19,069.2	7.9
1949	1,441	41,647	143,197	19,990.4	7.2
1950	1,605	45,734	161,750	21,494.5	7.5
1951	1,640	48,418	176,587	22,668.1	7.2
1952	1,736	49,119	160,829	23,093.1	7.5
1953	1,905	57,834	184,174	25,346.9	7.5
1954	1,793	56,444	185,534	26,041.2	6.9
1955	2,016	62,234	196,812	28,282.5	7.1
1956	1,746	61,158	197,995	28,429.3	6.1
1957	1,548	60,067	191,915	29,252.2	5.3
1958	1,382	57,767	177,934	29,411.3	4.7
1959	1,473	64,873	198,771	30,679.0	4.8
1960	1,604	91,026	209,724	31,842.4	5.0
1961	1,567	93,350	199,973	32,101.5	4.9
1962	1,574	108,143	233,078	34,498.0	4.6
1963	1,887	126,896	261,794	36,452.2	5.2
1964	2,122	144,623	284,444	38,617.6	5.5
1965	2,136	155,258	310,598	40,857.4	5.2
1966	2,298	156,694	302,880	43,940.1	5.2
1967	2,137	151,297	299,004	45,053.6	4.7
1968	2,392	160,413	305,495	48,047.4	5.0
1969	2,487	175,400	331,223	50,904.9	4.9
1970	2,177	161,719	313,715	53,148.1	4.1
1971	2,152	157,664	314,015	55,539.7	3.9
1972	2,258	178,929	359,745	57,817.1	3.9
1973	2,213	169,485	350,864	58,478.4	3.8
1974	1,825	141,132	324,763	55,748.7	3.4
1975	1,811	147,299	333,560	56,260.5	3.2
1976	1,955	162,894	365,600	61,827.4	3.2
1977	1,950	166,389	374,751	64,800.0	3.0
1978	2,076	169,202	389,193	67,375.0	3.1
1979	1,849	162,571	366,435	64,882.0	2.9
1980	1,774	144,972	315,594	61,190.0	2.9
1981	1,589	136,455	302,831	62,000.0	2.6
1982	1,417	130,061	294,971	61,321.7	2.3
1983	1,331	135,811	300,797	63,560.1	2.1
1984	1,556	150,740	335,193	65,730.0	2.4

SOURCE: Michigan Department of State Police, *Michigan Traffic Accident Facts, 1984* (Lansing: 1986).

a. Deaths per 100 million miles of travel.

TABLE XVII-6. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED AND PERSONS INJURED, IN MICHIGAN, BY TYPE OF ACCIDENT: 1984

Type of accident	Number of accidents				Number of persons			
						Injured		
	Fatal	Injury	Property damage	Total	Killed	Incapacitated	Nonincapacitated	Possibly[a]
Motor vehicle:								
Overturned	106	6,377	3,970	10,453	111	1,936	3,474	3,121
Other noncollision	18	727	1,417	2,162	18	243	353	228
Motor vehicle collision with:								
Pedestrian	234	4,080	133	4,447	238	1,485	1,561	1,308
Motor vehicle in transport	573	65,913	144,465	210,951	679	12,034	26,937	68,644
Motor vehicle - other roadway	12	47	48	107	18	34	32	51
Parked motor vehicle	17	2,749	25,039	27,805	17	442	1,357	1,626
Railroad train	16	104	133	253	22	46	53	50
Pedalcyclist	45	3,543	589	4,177	47	688	1,814	1,243
Animal	4	736	25,488	26,228	4	9	336	411
Fixed object	365	16,264	30,741	47,370	400	4,215	8,704	7,994
Other object	2	170	1,068	1,240	2	32	96	95
TOTAL	1,392	100,710	233,091	335,193	1,556	21,252	44,717	84,771

SOURCE: Michigan Department of State Police, Michigan Traffic Accident Facts 1984.

a. No visible injury but complaint of pain or momentary unconciousness.

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1984

	Accidents							Persons	
County	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Alcona	1	105	437	0	320	223	543	1	138
Alger	2	77	258	0	149	188	337	2	125
Allegan	17	786	1,771	146	1,611	817	2,574	18	1,194
Alpena	1	256	699	0	505	451	956	1	375
Antrim	2	165	420	0	328	259	587	2	236
Arenac	6	167	493	78	321	267	666	7	272
Baraga	3	69	213	0	131	154	285	3	100
Barry	8	444	1,325	0	1,137	640	1,777	10	649
Bay	19	1,192	2,579	211	2,164	1,415	3,790	19	1,751
Benzie	2	119	309	0	250	180	430	2	182
Berrien	31	1,742	4,293	819	3,579	1,668	6,066	40	2,647
Branch	7	307	1,096	134	872	404	1,410	7	476
Calhoun	22	1,431	3,849	1,028	3,534	740	5,302	25	2,110
Cass	15	462	1,180	0	925	732	1,657	19	701
Charlevoix	5	222	693	0	478	442	920	6	335
Cheboygan	3	223	412	91	308	239	638	3	344
Chippewa	5	231	704	231	544	165	940	7	320
Clare	11	280	864	0	602	553	1,155	14	426
Clinton	18	520	1,473	175	1,292	544	2,011	20	800
Crawford	2	131	488	179	256	186	621	4	206
Delta	4	334	1,367	0	1,099	606	1,705	4	481
Dickinson	3	204	753	0	460	500	960	4	286
Eaton	18	876	2,120	314	1,368	1,332	3,014	18	1,286
Emmet	7	276	819	3	581	518	1,102	7	419
Genesee	76	4,743	10,113	1,158	10,253	3,521	14,932	86	7,215

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1984 (cont.)

	Accidents							Persons	
County	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Gladwin	8	200	708	0	503	413	916	9	311
Gogebic	3	102	435	0	268	272	540	4	157
Grand Traverse	11	796	1,793	0	1,675	925	2,600	12	1,238
Gratiot	10	358	970	0	733	605	1,338	11	553
Hillsdale	11	374	1,140	0	951	574	1,525	15	578
Houghton	5	257	856	0	424	694	1,118	5	354
Huron	11	334	967	0	634	678	1,312	14	515
Ingham	26	2,947	7,843	1,251	6,245	3,320	10,816	27	4,134
Ionia	10	502	1,565	167	1,310	600	2,077	12	734
Iosco	10	263	893	0	653	513	1,166	12	389
Iron	3	88	415	0	224	282	506	3	131
Isabella	13	448	1,329	0	1,172	618	1,790	15	692
Jackson	24	1,415	3,987	920	3,496	1,010	5,426	25	2,112
Kalamazoo	23	2,163	6,528	942	6,109	1,663	8,714	26	3,071
Kalkaska	3	146	419	0	334	234	568	3	215
Kent	60	5,204	13,308	735	12,532	5,305	18,572	64	7,505
Keweenaw	0	16	41	0	20	37	57	0	20
Lake	0	81	381	0	298	164	462	0	120
Lapeer	16	656	1,578	0	1,335	915	2,250	18	1,029
Leelanau	3	121	358	0	218	264	482	6	169
Lenawee	17	858	2,196	0	1,736	1,335	3,071	19	1,241
Livingston	21	1,052	2,184	512	2,100	645	3,257	24	1,540
Luce	3	40	166	0	102	107	209	3	65
Mackinac	5	87	382	52	168	254	474	6	142
Macomb	98	8,170	15,635	1,192	15,154	7,557	23,903	105	12,305

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSONS KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1984 (cont.)

County	Accidents							Persons	
	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Manistee	2	216	691	0	554	355	909	2	310
Marquette	8	545	1,914	0	1,530	937	2,467	8	743
Mason	5	249	897	0	695	456	1,151	6	354
Mecosta	7	358	1,334	0	947	752	1,699	8	501
Menominee	3	255	1,210	0	810	658	1,468	3	369
Midland	4	653	1,825	0	1,847	635	2,482	6	935
Missaukee	6	86	365	0	236	221	457	8	147
Monroe	35	1,441	2,836	395	2,514	1,403	4,312	39	2,169
Montcalm	15	449	1,548	0	1,098	914	2,012	16	673
Montmorency	3	68	298	0	196	173	369	3	115
Muskegon	25	1,582	3,531	282	3,736	1,120	5,138	27	2,327
Newaygo	3	387	1,078	0	902	566	1,468	4	583
Oakland	122	13,076	25,577	3,267	26,642	8,866	38,775	132	19,657
Oceana	8	190	505	0	470	233	703	8	290
Ogemaw	4	175	674	189	453	211	853	6	264
Ontonagon	3	47	182	0	81	151	232	3	68
Osceola	6	183	760	0	508	441	949	6	267
Oscoda	5	80	330	0	237	178	415	5	120
Otsego	4	186	468	81	412	165	658	5	287
Ottawa	26	1,509	3,193	203	3,255	1,270	4,728	29	2,210
Presque Isle	2	73	415	0	219	271	490	3	117
Roscommon	6	192	651	75	368	406	849	6	305
Saginaw	36	2,447	5,617	451	5,069	2,580	8,100	45	3,644
St. Clair	34	1,166	3,226	163	2,535	1,728	4,426	41	1,866
St. Joseph	18	607	1,549	0	1,014	1,160	2,174	21	927

TABLE XVII-7. NUMBER OF MOTOR VEHICLE TRAFFIC ACCIDENTS, PERSON KILLED, AND PERSONS INJURED IN MICHIGAN, BY COUNTY: 1984 (cont.)

County	Accidents							Persons	
	Fatal	Injury	Property damage	Inter-state	Local street	State route	Total	Killed	Injured
Sanilac	6	291	1,090	0	743	644	1,387	7	466
Schoolcraft	0	92	275	0	147	220	367	0	137
Shiawassee	15	637	1,513	181	1,255	729	2,165	19	935
Tuscola	14	436	1,287	0	1,041	696	1,737	15	680
Van Buren	17	600	1,423	311	1,223	506	2,040	17	921
Washtenaw	51	2,731	6,746	1,248	5,958	2,322	9,528	59	3,929
Wayne	210	27,329	54,362	7,419	54,977	19,505	81,901	224	41,509
Wexford	7	334	916	0	504	753	1,257	8	521
TOTAL	1,392	100,710	233,091	24,603	213,637	96,953	335,193	1,556	150,740

SOURCE: Michigan Department of State Police, Michigan Traffic Accident Facts, 1984.

TABLE XVII-8. NUMBER OF AIRCRAFT LANDING FACILITIES, ACTIVE PILOTS, AND ACTIVE CIVIL AIRCRAFT IN MICHIGAN: 1 JANUARY 1962-1984

Year	Aircraft landing facilities[a]	Active pilots[b]	Active civil aircraft		
			Air carrier	General aviation	
				Multiengine	All other
1962	216	12,664	25	347	2,785
1963	226	13,030	23	374	2,896
1964	226	13,535	27	421	2,983
1965	235	15,235	34	438	3,047
1966	241	16,830	39	445	3,260
1967	242	19,338	45	550	3,614
1968	251	21,459	53	617	3,983
1969	278	24,214	44	688	4,245
1970	302	25,706	38	721	4,597
1971	305	25,836	--	--	5,526[c]
1972	376	26,152	--	--	5,511[c]
1973	383	26,585	--	--	n.a.
1974	401	24,409	--	--	6,101[c]
1975	403	24,562	--	--	6,216[c]
1976	400	23,822	--	--	6,254[c]
1977	421	n.a.	--	--	7,494[c]
1978	413	25,317	--	--	6,818[c]
1979	418	25,631	--	--	7,279[c]
1980	413	26,102	--	--	7,243[c]
1981	419	25,594	--	--	7,430[c]
1982	417	22,364	--	--	7,065
1983	422	20,136	--	--	7,079
1984	461	20,157	--	--	7,066

SOURCE: Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, 1963 through 1984 (Washinton, D.C.: annually), Tables 3.5 7.12, and 8.6 (1981).

a. Civil and military airports and airfields including seaplane bases and heliports. Only those military airports are included which have joint civil use.

b. Represents active pilot certificates held.

c. Total active civil aircraft.

n.a.: not available.

TABLE XVII-9. NUMBER OF AIRCRAFT LANDING FACLITIES IN MICHIGAN AND THE UNITED STATES, BY LENGTH OF LONGEST RUNWAY: 1 JANUARY 1966 AND 1978 AND 31 DECEMBER 1984

	Length of longest runway, in feet					
Item	Under 3,000	3,000 to 3,999	4,000 to 5,999	6,000 to 9,999	10,000 and over	Total
1 January 1966						
Michigan	128	70	29	6	8	241
United States	5,920	1,686	1,281	405	250	9,542
1 January 1978						
Michigan	277	80	36	16	4	413
United States	8,940	2,503	1,773	641	260	14,117
31 December 1984						
Michigan	290	73	41	18	5	427
United States	10,596	2,626	1,952	671	230	16,079

SOURCE: Federal Aviation Administration, FAA Statistical Handbook of Aviation, 1966, 1978, and 1984 (Washington, D.C.: annually), Table 3.4 (1981).
a. Excludes Puerto Rico, Virgin Islands, N. Mariana Isles, and South Pacific.

TABLE XVII-10. SELECTED CHARACTERISTICS OF AIRCRAFT LANDING FACILITIES IN MICHIGAN AND THE UNITED STATES: 1 JANUARY 1966 AND 1978 AND 31 DECEMBER 1984

	1 January 1966		1 January 1978		31 December 1984	
Item	Michigan	United States	Michigan	United States	Michigan	United States[a]
			Type of facility			
Airport	234	8,780	390	11,713	375	10,648
Heliport	0	400	15[b]	1,891	16	2,982
Seaplane base	7	362	8	513	4	384
Stolports	n.a.	n.a.	n.a.	n.a.	2	65
			Ownership			
Public	115	3,554	133	4,708	230	5,921
Private	126	5,988	280	9,409	117	10,158
			Surface and lighting			
Paved						
Lighted	74	1,965	113	3,564	126	3,956
Not lighted	7	764	19	1,749	39	2,575
Unpaved						
Lighted	27	901	43	919	46	933
Not lighted	133	5,912	238	7,885	218	8,615

SOURCE: Federal Aviation Administration, FAA Statistical Handbook of Aviation, 1966, 1978, and 1984 (Washington, D.C.: annually), Tables 3.2 and 3.3 (1981).
a. Excludes Puerto Rico, Virgin Islands, N. Mariana Isles, and South Pacific.
b. Includes short take-off and landing ports.

TABLE XVII-12. ITINERANT, LOCAL AND TOTAL OPERATIONS FOR TOWER AIRPORTS, JANUARY-DECEMBER: 1984 AND 1985

Airport name (community)	Jan thru Dec	Total itinerant	Total local	Total operations
Ann Arbor Municipal	1984	35,946	58,056	94,002
(Ann Arbor)	1985	35,289	63,339	98,628
	%Chg	-1.8	9.1	4.9
W.K. Kellogg Regional	1984	25,112	14,728	39,840
(Battle Creek)	1985	27,201	16,378	43,579
	%Chg	8.3	11.2	9.4
Detroit City	1984	102,772	41,358	144,130
(Detroit)	1985	100,727	46,818	147,545
	%Chg	-2.0	13.2	2.4
Detroit Metropolitan	1984	326,270	0	326,270
(Detroit)	1985	380,318	0	380,318
	%Chg	16.6	0.0	16.6
Detroit-Willow Run	1984	76,961	76,548	153,509
(Detroit)	1985	79,433	70,567	150,000
	%Chg	3.2	-7.8	-2.3
Bishop	1984	59,223	51,680	110,903
(Flint)	1985	59,232	57,166	116,398
	%Chg	0.0	10.6	5.0
Kent County Inter-	1984	98,558	33,679	132,237
national	1985	100,958	36,202	137,160
(Grand Rapids)	%Chg	2.4	7.5	3.7
Jackson County	1984	34,753	23,810	58,563
Reynolds	1985	38,561	32,003	70,564
(Jackson)	%Chg	11.0	34.4	20.5
Kalamazoo Municipal	1984	57,580	27,879	85,477
(Kalamazoo)	1985	62,865	34,542	97,407
	%Chg	9.2	23.9	14.0
Capital City	1984	71,536	45,258	116,794
(Lansing)	1985	73,612	67,502	141,114
	%Chg	2.9	49.1	20.8
Muskegon County	1984	43,958	19,155	63,113
(Muskegon)	1985	45,938	19,860	65,798
	%Chg	4.5	3.7	4.3

TABLE XVII-12. ITINERANT, LOCAL AND TOTAL OPERATIONS FOR TOWER AIRPORTS, JANUARY-DECEMBER: 1984 AND 1985 (cont.)

Airport name (community)	Jan thru Dec	Total itinerant	Total local	Total operations
Oakland-Pontiac	1984	144,627	160,893	305,520
(Pontiac)	1985	149,652	145,460	295,112
	%Chg	3.5	-9.6	-3.4
Tri-City International	1984	41,754	14,957	56,711
(Saginaw)	1985	38,593	12,478	51,071
	%Chg	-7.6	-16.6	-9.9
Cherry Capital	1984	45,957	40,106	86,063
(Traverse City)	1985	48,909	39,799	88,708
	%Chg	6.4	-0.8	3.1
Total	1984	1,165,007	608,125	1,773,132
	1985	1,241,288	642,114	1,883,402
	%Chg	6.5	5.6	6.2

SOURCE: Michigan Department of Transportation, special release.

TABLE XVII-13. MICHIGAN AIR SERVICE INDICATORS BY CITY AS OF 1 MAY 1985

City/Airport	Daily flights	Daily seats	Non-Stop origins	Number of carriers
Alpena	6	90	2	1
Battle Creek	11	390	4	2
Benton Harbor	3	108	1	1
Detroit City[a]	21	251	4	3
Detroit Metro[a]	372	34,591	59[b]	30
Escanaba	10	368	5	1
Flint	30	1,297	5	6
Grand Rapids	51	5,101	9	7
Hancock	12	364	3	1
Iron Mountain	8	246	3	1
Ironwood	3	72	1	1
Jackson	4	60	2	1
Kalamazoo	36	2,576	6	5
Lansing	38	1,573	7	4
Mackinac Island[c]	4	20	1	1
Marquette	13	608	5	1
Menominee	2	51	1	1
Muskegon	18	698	4	2
Pellston	9	260	2	2
Saginaw	22	1,443	5	3
Sault Ste. Marie	3	54	1	1
Traverse City	24	952	5	3
TOTAL	296	16,331	72	13

SOURCE: Michigan Department of Transportation, Bureau of Transportation Planning, Aviation Planning Unit, special release.

a. Data are for 1984.

b. Detroit Metro has non-stop service to 54 cities serving 59 airports. Cities served with more than one airport include Chicago (O'Hare, Midway), Houston (International, Houston), New York City (Kennedy, Newark, La Guardia), Cleveland (Hopkins, Burke).

c. Mackinac Island service is seasonal.

TABLE XVII-14. MICHIGAN AIR SERVICE INDICATORS BY CARRIER AS OF 1 MAY 1984

Carrier	Daily flights	Daily seats	MI cities serviced	Intrastate pairs	Interstate city-pairs
RC - Republic	161	15,088	8	26	32
MQ - Simmons	112	3,310	15	43	11
NW - N.W. Orient	34	5,188	2	2	11
UA - United	31	4,238	4	6	8
ZW - Air Wisconsin	34	1,850	4	6	7
DL - Delta	18	2,638	1	0	10
AL - U.S. Air	33	2,374	2	0	10
IU - Midstate	16	304	3	2	2
AL-1 - Fischer Bros.	28	740	3	4	0
OH - Comair	37	594	1	0	7
AA - American	16	2,771	1	0	3
KC - Wright	23	790	2	0	4
PI - Piedmont	14	1,776	4	0	5
EA - Eastern	9	1,039	1	1	3
GS - Beaver Air	16	144	4	4	4
JR - American Central	14	142	3	2	4
TW - Transworld	6	1,000	1	0	2
ML - Midway	8	676	1	0	1
QQ - Michigan Airways	10	50	2	2	0
FL - Frontier	4	436	1	0	2
DH - Freedom	17	658	6	5	3
UQ - Sundorph	6	28	1	0	1
PA - Pan American	3	613	1	0	3
CO - Continental	4	518	1	0	2
NY - New York	10	1,137	1	0	2
OZ - Ozark	3	270	1	0	1
IW - Best	3	246	1	0	3
RU - Britt Airways	5	90	1	0	1
XV - Mississippi Valley	3	90	1	0	1
NI - American Int'l	2	340	1	0	1
QH - Air Florida	1	128	1	0	1
TP - Jet Stream	2	36	1	0	1
BN - Braniff, Inc.	2	292	1	0	1
UR - Empire Airlines	1	85	1	0	1
TOTAL	674	49,679	82	103	147

SOURCE: Michigan Department of Transportation, special release.

NOTE: Daily Flights and Seats are arrivals aggregated across Michigan's commercial service airports. Michigan cities served is self-explanatory but the Total represents 82 'carrier cities' at our 25 service airports. Intrastate City pairs are one-way trip city pairs. Interstate city pairs are one-way arrivals from out-of-state. To compare these last two items, either double the interstate city pair figures or halve the intrastate city pair figures.

TABLE XVII-11. PASSENGERS, MAIL AND CARGO FOR AIR CARRIER AIRPORTS: JANUARY-DECEMBER: 1984 AND 1985

Airport Name (community)	Jan. thru Dec.	Passengers			Mail (pounds)			Cargo (tons)		
		Deplaned	Enplaned	Total	Inbound	Outbound	Total	Inbound	Outbound	Total
Phelps Collin	1984	4,196	4,375	8,571	0	0	0	6.2	2.4	8.6
(Alpena)	1985	5,008	4,985	9,993	35	458	493	4.8	1.6	6.4
	%Chg	19.4	13.9	16.6				-22.6	-33.3	-25.6
W.K. Kellogg Regional	1984	18,791	18,940	37,731	0	0	0	141.1	35.9	177.0
(Battle Creek)	1985	16,255	17,112	33,367	0	0	0	55.2	25.0	80.2
	%Chg	-13.5	-9.7	-11.6	0.0	0.0	0.0	-60.9	-30.4	-54.7
Ross Field	1984	13,068	13,749	26,817	0	0	0	6.4	4.1	10.5
(Benton Harbor)	1985	11,255	11,536	22,791	0	5,507	5,507	14.3	2.9	17.2
	%Chg	-13.9	-16.1	-15.0				123.4	-29.3	63.8
Detroit City	1984	21,286	22,354	43,640	0	0	0	45.9	57.3	103.2
(Detroit)	1985	22,352	23,306	45,658	0	0	0	40.8	25.7	66.5
	%Chg	5.0	4.3	4.6				-11.1	-55.1	-35.6
Detroit Metropolitan	1984	5,654,617	5,643,208	11,297,825	42,796,010	48,832,620	91,628,630	52,622.9	51,674.5	104,297.4
(Detroit)	1985	7,517,719	7,585,820	15,103,539	44,859,215	45,731,697	90,590,912	49,471.8	58,354.2	107,826.0
	%Chg	32.9	34.4	33.7	4.8	-6.4	-1.1	-6.0	12.9	3.4
Delta County	1984	15,160	15,459	30,619	1,712	13,271	14,983	13.6	16.0	29.6
(Escanaba)	1985	10,577	10,865	21,442	0	14,176	14,176	14.8	10.5	25.3
	%Chg	-30.2	-29.7	-30.0	-100.0	6.8	-5.4	8.8	-34.4	-14.5
Bishop	1984	115,163	118,257	233,420	32,618	106,250	138,868	165.3	44.6	209.9
(Flint)	1985	132,891	134,588	267,479	35,403	940,298	975,701	167.4	27.6	195.0
	%Chg	15.4	13.8	14.6	8.5	785.0	602.6	1.3	-38.1	-7.1

TABLE XVII-11. PASSENGERS, MAIL AND CARGO FOR AIR CARRIER AIRPORTS: JANUARY-DECEMBER: 1984 AND 1985 (cont.)

Airport Name (community)	Jan. thru Dec.	Passengers			Mail (pounds)			Cargo (tons)		
		Deplaned	Enplaned	Total	Inbound	Outbound	Total	Inbound	Outbound	Total
Kent County International (Grand Rapids)	1984	519,085	520,686	1,039,771	8,594,796	654,249	9,249,045	3,380.2	3,261.7	6,641.9
	1985	599,636	595,605	1,195,241	9,909,467	2,950,764	12,860,231	4,176.4	4,549.6	8,726.0
	%Chg	15.5	14.4	15.0	15.3	351.0	39.0	23.6	39.5	31.4
Houghton County Memorial (Houghton/Hancock)	1984	20,002	19,644	39,646	5,090	6,607	11,697	32.1	28.8	60.9
	1985	20,448	21,167	41,615	2,253	3,008	5,261	23.0	24.0	47.0
	%Chg	2.2	7.8	5.0	-55.7	-54.5	-55.0	-28.3	-16.7	-22.8
Ford (Iron Mountain)	1984	10,718	10,845	21,563	9,384	18,237	27,621	11.9	5.8	17.7
	1985	8,713	8,683	17,396	4,462	19,810	24,272	9.7	2.0	11.7
	%Chg	-18.7	-19.9	-19.3	-52.5	8.6	-12.1	-18.5	-65.5	-33.9
Gogebic County (Ironwood)	1984	3,026	3,079	6,105	0	0	0	4.4	1.2	5.6
	1985	2,893	2,996	5,889	0	140	140	2.8	0.1	2.9
	%Chg	-4.4	-2.7	-3.5	0.0	0.0	0.0	-36.4	-91.7	-48.2
Jackson County Reynolds (Jackson)	1984	1,342	1,103	2,445	0	0	0	2.6	2.0	4.6
	1985	1,021	1,029	2,050	0	0	0	2.5	1.0	3.5
	%Chg	-23.9	-6.7	-16.2	0.0	0.0	0.0	-3.8	-50.0	-23.9
Kalamazoo Municipal (Kalamazoo)	1984	124,975	124,684	249,659	134,902	196,156	331,058	208.3	144.0	352.3
	1985	172,828	168,065	340,893	55,576	647,456	703,032	250.6	100.9	351.5
	%Chg	38.3	34.8	36.5	-58.8	230.1	112.4	20.3	-29.9	-0.2
Capital City (Lansing)	1984	170,235	163,569	333,804	162,675	718,969	881,644	292.9	131.1	424.0
	1985	171,033	172,966	343,999	116,656	1,295,066	1,411,722	241.6	102.1	343.7
	%Chg	0.5	5.7	3.1	-28.3	80.1	60.1	-17.5	-22.1	-18.9
Mackinac Island (Mackinac Island)	1984	630	783	1,413	0	0	0	0.1	0.0	0.1
	1985	582	720	1,302	0	0	0	0.2	0.0	0.2
	%Chg	-7.6	-8.0	-7.9	0.0	0.0	0.0	100.0	0.0	100.0
Manistee County-Blacker (Manistee)	1984	834	890	1,724	0	0	0	0.7	0.0	0.7
	1985	72	97	169	0	0	0	0.0	0.1	0.1
	%Chg	-91.4	-89.1	-90.2	0.0	0.0	0.0	-100.0	0.0	-85.7

TABLE XVII-11. PASSENGERS, MAIL AND CARGO FOR AIR CARRIER AIRPORTS: JANUARY-DECEMBER: 1984 AND 1985 (cont.)

Airport Name (community)	Jan. thru Dec.	Passengers			Mail (pounds)			Cargo (tons)		
		Deplaned	Enplaned	Total	Inbound	Outbound	Total	Inbound	Outbound	Total
Marquette County (Marquette)	1984	36,258	35,898	72,156	352	69	421	173.8	29.3	203.1
	1985	37,039	38,171	75,210	2	1,115	1,117	106.8	37.3	144.1
	%Chg	2.2	6.3	4.2	-99.4	1,515.9	165.3	-38.6	27.3	-29.0
Menominee-Marinette (Menominee)	1984	1,615	1,571	3,186	0	0	0	1.9	1.1	3.0
	1985	1,062	1,056	2,118	0	0	0	0.7	0.2	0.9
	%Chg	-34.2	-32.8	-33.5	0.0	0.0	0.0	-63.2	-81.8	-70.0
Muskegon County (Muskegon)	1984	43,802	43,986	87,788	0	0	0	31.3	21.5	52.8
	1985	42,314	44,468	86,782	0	0	0	26.1	25.1	51.2
	%Chg	-3.4	1.1	-1.1	0.0	0.0	0.0	-16.6	16.7	-3.0
Emmet County (Pellston)	1984	20,833	20,706	41,539	117	467	584	64.9	54.0	118.9
	1985	15,681	14,740	30,421	0	369	369	21.6	17.0	38.6
	%Chg	-24.7	-28.8	-26.8	-100.0	-21.0	-36.8	-66.7	-68.5	-67.5
Tri-City International (Saginaw)	1984	158,621	159,014	317,635	77,209	48,711	125,920	316.0	139.1	455.1
	1985	188,739	191,981	380,720	85,477	276,077	361,554	329.9	157.7	487.6
	%Chg	19.0	20.7	19.9	10.7	466.8	187.1	4.4	13.4	7.1
Chippewa Co. International (Sault Ste. Marie)	1984	3,849	4,195	8,044	3,189	1,914	5,103	8.0	3.9	11.9
	1985	5,060	5,017	10,077	1,942	2,719	4,661	8.6	2.8	11.4
	%Chg	31.5	19.6	25.3	-39.1	42.1	-8.7	7.5	-28.2	-4.2
Cherry Capital (Traverse City)	1984	68,828	67,295	136,123	20,774	12,579	33,353	337.9	127.8	465.7
	1985	75,458	74,540	149,998	5,873	8,583	14,456	184.3	57.4	241.7
	%Chg	9.6	10.8	10.2	-71.7	-31.8	-56.7	-45.5	-55.1	-48.1
TOTAL	1984	7,026,934	7,014,290	14,041,224	51,838,828	50,610,099	102,448,927	57,868.4	55,786.1	113,654.5
	1985	9,058,636	9,129,513	18,188,149	55,076,361	51,897,243	106,973,604	55,153.8	63,524.8	118,678.6
	%Chg	28.9	30.2	29.5	6.2	2.5	4.4	-4.7	13.9	4.4

SOURCE: Michigan Department of Transportation, special release.

TABLE XVII-16. ANNUAL MASS TRANSIT RIDERSHIP: 1982-1985

Service	1982	1983	1984	1985
	(Total passengers)			
Local public transportation	118,276,540	101,975,898	109,779,331	103,208,147
Intercity rail passenger	504,000	472,451	457,483	565,358
Detroit-Chicago (incl. Detroit-Toledo)	348,028	354,817	347,251	386,257
Port Huron-Chicago	99,332	117,634	110,232	118,506
Grand Rapids-Chicago	(a)	(a)	(a)	60,595
SEMTA commuter rail	349,887	(b)	(b)	(b)

SOURCE: Michigan Department of Transportation, special release.

a. New in 1985.
b. Service discontinued.

TABLE XVII-17. MICHIGAN RAILROAD TRAFFIC: 1981-1985

			(Carloads)[1]		
	1981	1982	1983	1984	1985
Upper Peninsula	432,170	196,785	288,130	383,490	370,546
Southeast Michigan[2]	365,277	353,648	373,900	454,824	506,664
Remainder of Lower Peninsula	523,158	454,533	505,236	509,610	500,889
MICHIGAN TOTAL	1,320,605	1,004,966	1,167,266	1,347,924	1,378,099

SOURCE: Michigan Department of Transportation, special release.

[1] Rail carloads with an origin or a termination in Michigan.
[2] Wayne, Oakland, and Macomb counties.

TABLE XVII-18. ANNUAL RIDERSHIP AND VEHICLE HOURS FOR EACH LOCAL PUBLIC TRANSPORTATION SYSTEM: 1984 AND 1985

Planning Area	Annual ridership		Annual vehicle hours	
	1984	1985	1984	1985
Urban systems				
Ann Arbor	3,430,055	3,604,105	144,496	182,474
Battle Creek	1,010,318	937,727	45,693	47,333
Bay County	1,205,453	1,017,221	86,724	72,552
Benton Harbor	142,946	161,561	23,359	24,894
Flint	4,058,909	3,981,441	146,759	144,058
Grand Rapids	5,190,908	4,883,854	169,856	172,027
Jackson	558,242	509,734	40,233	38,897
Kalamazoo	2,570,186	2,408,381	96,565	97,178
Lansing	4,532,553	4,485,772	143,613	153,432
Muskegon	683,356	672,746	34,982	34,092
Niles	111,437	76,819	20,823	16,802
Saginaw	1,528,074	1,451,591	64,265	79,285
SEMTA[a]	80,425,858	74,762,521	2,625,362	2,477,604
TOTALS	105,448,295	98,953,473	3,642,730	3,540,628
County systems				
Alger	45,784	52,053	13,788	10,275
Antrim	75,965	84,541	17,793	20,788
Barry	51,467	49,073	7,786	7,522
Bay Area	170,984	154,366	18,459	26,618
Charlevoix	73,095	70,765	12,319	9,988
Crawford	110,980	114,342	17,963	17,534
Eastern U.P.	80,600	78,742	15,360	14,374
Eaton	130,313	147,038	24,528	27,426
Gladwin	n.a.	87,189	n.a.	90,270
Gogebic	41,783	30,261	8,328	6,100
Huron	n.a.	131,568	n.a.	23,467
Ingham	36,129	39,426	8,046	8,099
Iosco	64,084	82,181	12,965	13,539
Isabella	172,877	192,664	28,153	36,864
Lenawee	59,954	67,400	13,389	12,444
Manistee	129,534	140,187	24,158	30,910
Marquette	147,674	103,732	12,689	23,253
Mecosta	66,432	52,943	12,318	10,016
Ogemaw	24,987	40,764	4,500	5,435
Ontonago	7,890	37,327	2,351	9,210
Oscoda	16,491	24,797	4,756	6,727
Otsego	55,921	68,216	13,227	13,606
Roscommon	89,689	92,965	17,408	18,893
Sanilac	n.a.	54,585	n.a.	11,371
Schoolcraft	27,598	25,853	6,071	4,891
Van Buren	47,127	46,028	8,153	8,346
TOTALS	n.a.	2,069,006	n.a.	467,966

[a] SEMTA figures includes DDOT and SEMTA nonurban portion.

TABLE XVII-18. ANNUAL RIDERSHIP AND VEHICLE HOURS FOR EACH LOCAL PUBLIC TRANSPORTATION SYSTEM: 1984 AND 1985 (cont.)

Planning	Annual ridership		Annual vehicle hours	
Area	1984	1985	1984	1985
Non-county systems				
Adrian	97,150	101,110	13,262	13,919
Alma	75,132	77,522	8,873	8,814
Alpena	88,194	86,219	12,540	12,551
Belding	42,504	53,368	4,370	4,680
Big Rapids	103,300	106,765	14,336	13,497
Buchanan	n.a.	10,159	n.a.	3,549
Cadillac	80,753	83,774	17,675	18,312
Dowagiac	33,916	27,328	4,783	4,480
Greenville	54,516	60,792	9,877	7,279
Grand Haven	127,129	130,994	17,578	18,718
Hillsdale	45,535	53,001	5,832	6,337
Holland	105,958	112,124	20,240	20,712
Houghton	83,056	74,566	11,989	11,720
Ionia	46,066	52,455	5,112	5,533
Ishpeming	27,999	27,593	6,436	6,225
Ludington	117,372	114,778	15,603	15,702
Marquette	147,674	148,240	12,689	12,268
Marshall	68,611	58,567	6,120	6,018
Midland	142,475	109,483	26,650	21,207
Saugatuck Twp.	38,813	37,993	5,304	5,582
Sault St. Marie	70,811	48,408	9,040	9,014
Yates Twp.	25,124	36,437	6,111	10,602
TOTALS	n.a.	1,611,676	n.a.	236,719
New Service systems				
Bay Area Transit.		18,422		6,508
Berrien Co.		83,959		13,635
Branch Co.		70,504		13,448
Caro (Village of)		28,740		6,695
Clare Co.		53,535		10,940
Kalamazoo Co.		69,826		14,442
Kalkaska Co.		54,563		10,279
Keweenaw Bay		38,817		8,810
Lapeer Co.		19,065		4,325
Mason Co.		55,108		11,692
Osceola Co.		47,157		9,712
Wexford Co.		34,296		7,224
TOTALS		573,992		117,710

SOURCE: Michigan Department of Transportation, special release.

TABLE XVII-20. NUMBER OF REVENUE VEHICLES REPORTED BY THE DETROIT & CANADA TUNNEL CORPORATION, DETROIT INTERNATIONAL BRIDGE COMPANY, MACKINAC BRIDGE AUTHORITY, AND INTERNATIONAL BRIDGE AUTHORITY: 1969-1984

Year	Detroit & Canada Tunnel Corporation	Detroit International Bridge Company	Mackinac Bridge Authority	International Bridge Authority
1969	5,921,565	4,204,805	1,836,383	743,076
1970	5,926,789	4,216,764	1,947,862	759,999
1971	5,863,013	4,408,012	2,090,492	780,222
1972	5,681,152	4,616,461	2,174,664	824,878
1973	5,523,499	4,964,444	2,254,439	868,479
1974	5,405,642	4,973,016	2,138,298	865,814
1975	5,202,331	4,980,587	2,285,784	936,890
1976	5,056,690	5,022,711	2,391,211	957,622
1977	4,968,398	5,238,646	2,460,293	1,059,595
1978	5,392,341	4,956,585	2,539,620	1,118,930
1979	5,250,899	5,348,952	2,293,446	1,076,327
1980	5,875,945	5,971,177	2,260,102	1,216,332
1981	6,323,911	5,784,935	2,320,542	1,316,435
1982	5,397,841	5,317,383	2,295,908	1,270,609
1983	5,585,446	5,717,444	2,426,807	1,438,789
1984	5,738,845	6,024,953	2,503,603	1,539,722

SOURCE: Detroit & Canada Tunnel Corporation, special release; Detroit International Bridge Company, special release; Mackinac Bridge Authority, special release; and International Bridge Auhority.

NOTE: The International Bridge Authority links Michigan and Canada at Sault Ste. Marie. Traffic data for the Blue Water Bridge, located at Port Huron and Sarnia, are not available.

TABLE XVII-15. PERCENT OF MICHIGAN'S TOTAL AIRLINE PASSENGERS BOARDING AT EACH COMMERCIAL SERVICE AIRPORT IN THE STATE: 1975-1985

Principal city served	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	Percentage change 1975-1985
Alpena	.184	.183	.191	.195	.187	.193	.126	.073	.070	.061	.055	-.129
Battle Creek	.390	.423	.509	.465	.406	.376	.360	.375	.315	.269	.183	-.207
Benton Harbor	.560	.572	.606	.540	.527	.454	.291	.167	.189	.191	.125	-.435
Detroit (City)	.541	.536	.559	.555	.541	.532	.478	.465	.392	.311	.251	-.290
Detroit (Metro)	76.066	75.439	74.917	74.877	76.467	77.630	80.277	80.739	77.819	80.462	83.041	+6.975
Escanaba	.300	.316	.315	.272	.307	.322	.276	.296	.261	.218	.118	-.182
Flint	1.995	2.182	2.278	2.188	1.762	1.371	.978	.835	1.437	1.662	1.471	-.524
Grand Rapids	5.916	5.854	6.345	6.570	6.603	6.795	6.277	6.734	8.405	7.405	6.572	+.656
Houghton	.400	.411	.399	.405	.384	.394	.372	.338	.352	.282	.229	-.171
Iron Mountain	.339	.337	.338	.345	.256	.306	.235	.186	.179	.154	.096	-.243
Ironwood	.171	.169	.164	.160	.173	.192	.144	.136	.088	.043	.032	-.139
Jackson	.175	.171	.179	.155	.122	.112	.064	.035	.026	.017	.011	-.164
Kalamazoo	1.920	2.093	1.856	2.144	2.027	1.919	1.816	1.600	1.766	1.788	1.874	-.046
Lansing	3.384	3.425	3.540	3.493	3.180	2.946	2.295	2.339	2.985	2.377	1.891	-1.493
Manistee	.058	.055	.050	.045	.041	.036	.025	.014	.014	.012	.001	-.057
Marquette	.656	.669	.661	.668	.608	.543	.524	.490	.561	.514	.414	-.242
Menominee	.199	.184	.178	.176	.155	.161	.072	.041	.027	.023	.012	-.187
Muskegon	1.496	1.515	1.450	1.353	1.200	.873	.896	.861	.760	.625	.477	-1.019
Pellston	.460	.487	.485	.474	.434	.399	.330	.309	.340	.296	.167	-.293
Saginaw	3.398	3.573	3.574	3.531	3.198	3.027	2.758	2.681	2.730	2.262	2.093	-1.306
Sault Ste. Marie	.275	.293	.236	.198	.192	.173	.113	.099	.083	.057	.055	-.220
Traverse City	1.118	1.114	1.171	1.193	1.229	1.245	1.294	1.179	1.186	.969	.825	-.293

SOURCE: Michigan Department of Transportation, Planning Division, special release.

TABLE XVII-19. FREIGHT CARRIED ON THE MICHIGAN GREAT LAKES SYSTEM: 1976-1983

(Thousands of ton-miles)

Waterway and year	Domestic				Foreign		Area totals
	Lakewise	Coastwise	Internal	Local and intraport	Canada	Overseas	
Lake Superior							
1976	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1977	15,454,146	0	0	181	1,616,238	1,529,034	18,599,599
1978	24,617,303	0	0	71	2,646,711	2,686,460	29,950,545
1979	25,692,584	0	0	572	2,845,119	2,184,803	30,723,078
1980	20,359,118	0	0	31	3,179,098	1,687,680	25,225,927
1981	21,485,375	0	0	16	2,945,107	1,539,937	25,970,435
1982	11,828,572	0	6	49	2,038,959	1,368,249	15,235,835
1983	14,776,965	0	0	212	1,901,646	1,222,926	17,901,749
St. Mary's River							
1976	4,138,670	0	0	3	329,790	163,517	4,631,980
1977	2,817,806	0	0	1	312,514	250,804	3,381,125
1978	4,511,761	0	0	4	450,469	440,943	5,403,177
1979	4,612,771	0	0	1	464,618	358,598	5,435,988
1980	3,618,103	0	0	1	532,626	277,227	4,427,957
1981	3,828,774	0	0	0	475,926	252,999	4,557,699
1982	2,062,519	0	0	0	322,170	224,629	2,609,318
1983	2,581,387	0	0	5	315,378	200,885	3,097,650
Lake Huron							
1976	17,004,630	0	3,963	4,935	3,962,777	1,548,453	22,424,758
1977	13,135,740	0	8	4,970	3,482,484	2,131,923	18,755,125
1978	17,992,729	0	610	4,658	3,840,447	2,894,635	24,733,079
1979	18,552,490	1,346	303	4,789	4,611,055	2,577,599	25,747,582
1980	14,678,609	49	157	2,993	4,834,673	1,575,443	20,091,924
1981	13,958,715	0	604	3,091	4,153,848	1,477,227	19,593,485
1982	7,943,626	0	14	2,077	2,968,409	1,440,600	12,354,726
1983	9,610,994	0	353	14	2,843,398	1,298,474	13,753,233

TABLE XVII-19. FREIGHT CARRIED ON THE MICHIGAN GREAT LAKES SYSTEM: 1976-1983 (cont.)

(Thousands of ton-miles)

Waterway and year	Domestic				Foreign		Area totals
	Lakewise	Coastwise	Internal	Local and intraport	Canada	Overseas	
St. Clair[a]							
1976	3,953,856	0	665	0	863,660	376,761	5,194,942
1977	2,986,684	0	0	0	822,731	519,520	4,328,935
1978	4,101,310	0	141	0	913,248	716,796	5,731,495
1979	4,257,591	312	68	0	1,128,238	636,397	6,022,606
1980	3,345,722	804	0	0	944,938	393,683	4,685,147
1981	3,172,715	0	6	0	1,022,650	369,192	4,564,463
1982	1,703,759	0	0	0	692,831	355,918	2,752,508
1983	2,034,514	0	82	0	655,824	320,461	3,010,881
Detroit River							
1976	2,024,737	1,600	402	794	519,801	253,521	2,800,855
1977	1,529,176	1,159	34	779	520,875	338,756	2,390,779
1978	2,062,537	1,458	114	913	542,028	434,753	3,041,803
1979	2,158,570	1,383	37	390	666,182	387,630	3,214,192
1980	1,703,918	1,651	0	437	566,896	234,782	2,507,684
1981	1,621,194	0	3	133	649,146	222,682	2,493,158
1982	855,914	0	0	258	442,642	214,246	1,513,060
1983	985,961	0	44	287	419,105	201,067	1,606,464
Lake Michigan[b]							
1976	14,490,026	1,200	460,620	65,835	3,075,673	1,265,525	19,358,885
1977	11,270,889	1,057	421,172	57,984	2,775,846	1,628,324	16,155,272
1978	16,005,560	897	380,129	76,822	2,443,191	1,740,677	20,647,276
1979	15,266,657	2,491	395,712	72,655	3,121,358	1,661,987	20,520,860
1980	12,178,890	851	455,227	68,523	2,028,203	762,070	15,493,761
1981	12,518,988	536	474,752	48,370	2,460,422	750,830	16,253,898
1982	8,336,314	78	372,861	58,727	2,092,793	822,815	11,683,408
1983	10,148,301	0	389,894	57,889	1,577,100	730,699	12,903,883

SOURCE: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Part 3, Waterways and Harbors--Great Lakes, 1975 through 1982 (Vicksburg, Mississippi: annually).

[a] Includes St. Clair River and channels in Lake St. Clair.

[b] Includes the port of Chicago.

XVIII. COMMUNICATIONS

The Federal Communications Commission is the leading source of information in the field. Its publication Statistics of Communications Common Carriers gives much detailed information about telephones, radio, and television in the nation and in various states.

The Broadcasting Yearbook of Broadcasting Publications, Inc., lists a considerable amount of information relating to radio and television stations. This volume includes information by states, the facility involved, advertising rates charged, trading area covered, and so forth. Further information concerning Michigan newspapers is available in the Michigan Newspaper Directory and Rate Book of the Michigan Press Association.

Data on plant and customers of each telephone company are available from the records of the Michigan Public Service Commission in the Michigan Department of Commerce. The PSC is responsible for regulating telephone companies and other public utilities.

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TABLE XVIII-1. NUMBER AND CIRCULATION OF DAILY AND SUNDAY NEWSPAPERS IN MICHIGAN: 1966-1984

(Circulation figures in thousands)

	Daily newspapers		Sunday newspapers	
Year	Number	Net paid circulation	Number	Net paid circulation
1966	54	2,410	11	2,093
1967	54	2,492	11	2,167
1968	54	2,435	12	2,085
1969	55	2,415	12	2,080
1970	56	2,512	13	2,189
1971	55	2,447	13	2,187
1972	55	2,510	14	2,245
1973	55	2,569	14	2,276
1974	55	2,527	14	2,269
1975	52	2,448	15	2,361
1976	53	2,453	14	2,225
1977	52	2,457	14	2,237
1978	52	2,458	17	2,366
1979	52	2,458	17	2,363
1980	52	2,448	15	2,361
1981	52	2,463	15	2,400
1982	52	2,492	15	2,447
1983	52	2,507	15	2,498
1984	52	2,524	15	2,533

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1965 through 1986 (Washington, D.C.: annually).

TABLE XVIII-2. NUMBER OF COMMERCIAL BROADCAST STATIONS IN MICHIGAN: 1 JANUARY 1964-1980

Year	AM	FM	TV	Total
1964	114	47	16	177
1965	115	51	16	182
1966	116	58	17	191
1967	121	61	17	199
1968	122	67	18	207
1969	124	72	19	215
1970	124	76	20	220
1971	125	78	20	223
1972	125	84	22	231
1973	126	87	21	234
1974	124	92	21	237
1975	n.a.	n.a.	n.a.	n.a.
1976	128	107	24	259
1977	127	116	24	267
1978	127	109	24	260
1979	128	117	24	269
1980	131	122	24	277

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1965 through 1981 (Washington, D.C.: annually).
n.a.: Data not available.

TABLE XVIII-3. MICHIGAN DAILY NEWSPAPERS: 1984

			Circulation[b]	
County	City	Name[a]	Daily	Sunday
Alpena	Alpena	The Alpena News	12,751	--
Bay	Bay City	The Bay City Times	40,555	46,491
Berrien	St. Joseph	St. Joseph Herald Palladium	36,698	--
	Niles	The Daily Star	6,391	--
Branch	Coldwater	Daily Reporter	7,209	--
Calhoun	Albion	Albion Evening Recorder	3,143	--
	Battle Creek	Enquirer	30,541	38,220
	Marshall	Marshall Evening Chronicle	2,182	--
Cass	Dowagiac	Dowagiac Daily News	3,110	--
Delta	Escanaba	The Daily Press	10,369	--
Dickinson	Iron Mountain	The Daily News	10,305	--
Emmet	Petoskey	Petoskey News-Review	10,580	--
Genesee	Flint	The Flint Journal	109,890	113,221
Gogebic	Ironwood	Ironwood Daily Globe	8,932	--
Grand Traverse	Traverse City	Traverse City Record Eagle	23,951	--
Hillsdale	Hillsdale	Daily News	8,278	--
Houghton	Houghton	Daily Mining Gazette	12,300	--
Huron	Bad Axe	Huron Daily Tribune	8,849	--
Ingham	Lansing	Lansing State Journal	69,500	82,000
Ionia	Ionia	Ionia Sentinel-Standard	7,131	--
Isabella	Mt. Pleasant	Morning Sun	11,062	--
Jackson	Jackson	Jackson Citizen Patriot	39,000	43,000
Kalamazoo	Kalamazoo	Kalamazoo Gazette	63,308	77,148
Kent	Grand Rapids	The Grand Rapids Press	132,672	166,871
Lenawee	Adrian	The Daily Telegram	17,239	--
Macomb	Mt. Clemens	Macomb Daily	57,000	--
Manistee	Manistee	Manistee News-Advocate	5,795	--
Marquette	Marquette	The Mining Journal	17,459	--
Mason	Ludington	Ludington Daily News	8,252	--
Mecosta	Big Rapids	The Pioneer	5,466	--
Menominee	Menominee	The Herald-Leader	4,987	--

TABLE XVIII-3. MICHIGAN DAILY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b] Daily	Circulation[b] Sunday
Midland	Midland	Midland Daily News	18,441	--
Monroe	Monroe	The Monroe Evening News	27,137	--
Montcalm	Greenville	The Daily News	8,300	--
Muskegon	Muskegon	Muskegon Chronicle	46,285	48,793
Oakland	Pontiac	The Oakland Press	72,934	80,857
	Royal Oak	The Daily Tribune	41,000	--
Ottawa	Grand Haven	Grand Haven Tribune	9,841	--
	Holland	Holland Sentinel	19,653	--
Saginaw	Saginaw	The Saginaw News	56,406	59,808
St. Clair	Port Huron	The Times Herald	29,663	--
St. Joseph	Sturgis	Sturgis Journal	9,062	--
	Three Rivers	Three Rivers Commercial	4,850	--
Shiawassee	Owosso	The Argus Press	14,500	--
Van Buren	South Haven	South Haven Daily Tribune	4,468	--
Washtenaw	Ann Arbor	Ann Arbor News	46,772	53,283
	Ypsilanti	The Ypsilanti Press	15,557	--
Wayne	Detroit	Detroit Free Press	645,623	787,300
	Detroit	Detroit Legal News	2,480	--
	Detroit	Detroit News	657,015	861,004
Wexford	Cadillac	News	8,607	--

SOURCE: Michigan Press Association, Michigan Newspaper Directory 1985 (Lansing: 1985).

a. This list includes all members of the Michigan Press Association; no information is available for other papers which are not members.

b. Circulation figures are taken from the statement of ownership required by the U.S. Postal Service, Audit Bureau of Circulation, and Certified Audit Circulation.

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984

County	City	Name[a]	Circulation[b]
Alcona	Harrisville	Alcona County Review	3,339
	Lincoln	Alcona County Herald	2,100
Alger	Munising	The Munising News	3,135
Allegan	Allegan	Allegan County News Gazette	6,394
	Fennville	Fenville Herald	1,247
	Plainwell	The Union Enterprise	2,314
	Saugatuck	The Commercial Record	2,354
	Wayland	The Wayland Globe	3,447
Antrim	Bellaire	Antrim County News	4,266
	Central Lake	The Torch	1,989
	Elk Rapids	Town Meeting	1,725
Arenac	Standish	Arenac County Independent	6,407
Baraga	L'Anse	L'Anse Sentinel	4,209
Barry	Freeport	Freeport News	600
	Hastings	Hastings Banner	3,749
	Middleville	Middleville Sun and Caledonia News	1,625
	Nashville	Maple Valley News	3,200
Bay	Bay City	Bay City Democrat and Bay County Legal News	885
	Bay City	Valley Farmer	2,367
	Pinconning	Pinconning Journal	1,536
Benzie	Frankfort	Benzie Co. Record Patriot	3,484
Berrien	Berrien Springs	The Journal Era	4,119
	Buchanan	Berrien County Record	2,352
	New Buffalo	New Buffalo Times	3,100
	Three Oaks	Galien River Gazette	1,354
	Watervliet	Watervliet Record	2,267
Branch	Bronson	The Bronson Journal	1,940
	Union City	The Register-Tribune	1,059
Calhoun	Albion	Journal of Albion	1,100
	Homer	Homer Index	890
Cass	Cassopolis	Cassopolis Vigilant	2,061
	Edwardsburg	Edwardsburg Argus	1,337
	Marcellus	The Marcellus News	1,485
Charlevoix	Boyne City	Charlevoix County Press	3,363
	Charlevoix	Charlevoix Courier	3,229
Cheboygan	Indian River	Straitsland Resorter	2,646
Clare	Clare	The Clare Sentinel	3,260
	Farwell	Farwell News and Review	8,000
	Harrison	Clare County Cleaver	4,067
Clinton	Dewitt	Dewitt/Bath Review	2,021
	St. Johns	Clinton County News	8,060
Crawford	Grayling	Crawford County Avalanche	4,157
Delta	Gladstone	Delta Reporter	3,600
Dickinson	Norway	Norway Current	1,120
Eaton	Bellevue	Bellevue Gazette	394
	Charlotte	Eaton Cnty. News Chronicle	3,206
	Grand Ledge	Independent	5,235
	Olivet	Olivet Optic News	226
	Sunfield	The Sunfield Sentinel	1,145

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Genesee	Clio	The Clio Messenger	7,004
	Davison	Davison Index	8,500
	Fenton	Independent	15,321
	Fenton	Tri-County News	22,856
	Flint	Flint-Genesee County Legal News	1,049
	Flint	The Suburban News	26,500
	Flushing	Flushing Observer	5,648
	Grand Blanc	Grand Blanc Evening News	8,562
	Mt. Morris	Genesee Co. Herald	3,977
Gladwin	Gladwin	Gladwin County Record & Beaverton Clarion	6,852
Gogebic	Wakefield	The Wakefield News	1,349
Gratiot	Ithaca	Gratiot County Herald	6,487
Hillsdale	Camden	The Farmer's Advance	23,433
	Jonesville	The Jonesville Independent	762
Houghton	Calumet	Copper Island Sentinel	2,878
Huron	Harbor Beach	Harbor Beach Times	3,310
	Pigeon	Progress-Advance	3,016
	Sebewaing	Sebewaing Blade-Crescent	3,450
Ingham	East Lansing	Towne Courier	4,963
	Leslie	Leslie Local Independent	1,863
	Mason	Ingham County News	2,747
	Stockbridge	Town Crier	1,371
	Williamston	The Enterprise	2,038
Ionia	Clarksville	Clarksville Record	560
	Portland	Review & Observer	5,805
Iosco	East Tawas	Iosco County News	7,440
	Oscoda	Oscoda Press	6,618
Iron	Crystal Falls	The Diamond Drill	3,249
	Iron River	Iron River Reporter	4,810
Isabella	Shepherd	The Shepherd Argus	1,502
Jackson	Brooklyn	The Exponent	9,509
	Hanover	Hanover Horton Local	675
	Jackson	The Blazer & Shoppers Express	12,000
	Jackson	Jackson County Legal News	1,516
	Parma	The Parma News	827
	Springport	Springport Signal	2,200
Kalamazoo	Climax	The Climax Crescent	737
	Galesburg	The Argus	466
	Richland	Richland Journal	659
	Vicksburg	Commercial-Express	1,621
Kalkaska	Kalkaska	Leader and Kalkaskian	3,459
Kent	Byron Center	South Advance	15,000
	East Grand Rapids	Advance Suburban Life	13,200
	East Grand Rapids	Cadence	5,500
	Grand Rapids	Central Advance	11,000
	Grand Rapids	Northfield Advance	19,500
	Kentwood	Kentwood Advance	14,000
	Lowell	Grand Valley Ledger	2,415
	Sparta	North Kent Advance	16,000
	Walker	Walker-Westside Advance	25,500
	Wyoming	Wyoming Advance	22,000

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Lake	Baldwin	Lake County Star	3,491
Lapeer	Imlay City	Tri-City Times	7,300
	Lapeer	Lapeer County Press	21,841
Leelanau	Leland	The Leelanau Enterprise	6,051
Lenawee	Blissfield	Blissfield Advance	2,807
	Clinton	Clinton Local	1,200
	Hudson	Hudson Post-Gazette	1,990
	Morenci	The Morenci Observer	4,960
	Tecumseh	The Tecumseh Herald	5,250
Livingston	Brighton	Brighton Argus	7,710
	Fowlerville	Fowlerville Review	4,526
	Hartland	Hartland Herald	6,442
	Howell	Livingston County Press	9,901
	Pinckney	Pinckney Post	6,638
Luce	Newberry	Newberry News	3,441
Mackinac	St. Ignace	St. Ignace News	5,874
Macomb	Armada	Armada Times	1,168
	New Baltimore	Anchor Bay Beacon	8,308
	Richmond	The Review	7,119
	Romeo	The Romeo Observer	4,786
	Romeo	Romeo/Washington Twshp. Advisor	6,652
	St. Clair Shores	St. Clair Shores-Roseville-East Detroit-Fraser Community News	41,500
	Sterling Heights	Sterling Heights Source-North	13,892
	Sterling Heights	Sterling Heights Source-South	14,467
	Sterling Heights	Sterling Heights-Utica-Shelby Advisor	38,735
	Utica	Fraser-Clinton Twp. Advisor	21,263
	Utica	Utica/Shelby Source	16,061
	Warren	Warren-Centerline Comm. News	38,400
	Warren	Macomb Reporter	25,500
Manistee	Bear Lake	Manistee County Pioneer Press	2,112
Menominee	Stephenson	Menominee County Journal	3,783
Missuakee	Lake City	Lake City Waterfront	4,165
Monroe	Dundee	Dundee Reporter	1,144
	Lambertville	Journal Herald	13,600
	Petersburg	Petersburg Sun	806
Montcalm	Carson City	The Carson City Gazette	1,880
	Howard City	Howard City Record	1,200
Montmorency	Atlanta	Montmorency County Tribune	4,750
Muskegon	Norton Shores	The Examiner	12,750
Newaygo	Fremont	Fremont Times-Indicator	9,036
Oakland	Birmingham	Eccentric	20,714
	Clarkston	Clarkston News	4,062
	Clarkston	The Reminder	11,000
	Farmington	Farmington Observer	16,185
	Ferndale	Legal Advisor-Oakland County	1,095
	Holly	Herald Advertiser	2,144
	Lake Orion	Lake Orion Review	3,414
	Milford	Milford Times	4,834

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Oakland (cont.)	Milford	Milford-Highland Spinal Column	11,475
	Novi	Novi-Commerce Spinal Column	14,345
	Novi	Novi-Walled Lake News	5,481
	Oxford	The Oxford Leader	2,978
	Pontiac	Oakland County Legal News	1,408
	Rochester	The Rochester Clarion	7,412
	Rochester	The Rochester Eccentric	8,312
	Southfield	The Southfield Eccentric	16,301
	South Lyon	Herald	4,754
	Troy	The Eccentric	9,318
	Troy	Oakland Reporter	27,000
	Union Lake	Spinal Column Newsweekly	13,715
	West Bloomfield	The Eccentric	4,392
	West Bloomfield	West Bloomfield Spinal Column	10,500
Oceana	Hart	Oceana's Herald-Journal	6,173
Ogemaw	West Branch	Ogemaw County Herald	6,585
Ontonagon	Ontonagon	Ontonagon Herald	3,106
Osceola	Evart	Evart Review	2,517
	Marion	The Marion Press	1,535
	Reed City	Osceola County Herald	3,469
Oscoda	Mio	Oscoda County Herald	3,783
	Mio	Oscoda County News	2,825
Otsego	Gaylord	The Herald-Time	5,472
Ottawa	Coopersville	Ottawa Advance	9,000
	Grand Haven	Tri-Cities Advance	16,000
	Jenison	Grand Valley Advance	18,000
	Zeeland	Zeeland Record	1,793
Presque Isle	Onaway	Onaway Outlook	2,600
	Rogers City	Presque Isle County Advance	4,200
Roscommon	Houghton Lake	Houghton Lake Resorter	6,463
	Roscommon	Roscommon Herald-News	3,833
Saginaw	Bridgeport	Birch Run Weekly News	9,700
	Chesaning	The Courier	9,000
	Chesaning	St. Charles Valley News	5,100
	Frankenmuth	Frankenmuth News	4,375
	Saginaw	The Saginaw Press	1,014
	Saginaw	The Township Times	6,486
St. Clair	Algonac	The Courier-Journal	7,711
	Yale	Yale Expositor	2,315
St. Joseph	Colon	The Express	1,059
Sanilac	Brown City	The Brown City Banner	2,300
	Croswell	Jeffersonian Advisor	6,500
	Deckerville	Deckerville Recorder	1,870
	Marlette	Marlette Leader	2,127
	Minden City	Minden City Herald	1,477
	Sandusky	The Tribune	4,194
	Sandusky	Sanilac County News	4,300
Schoolcraft	Manistique	Pioneer-Tribune	3,650
Shiawassee	Durand	The Durand Express	2,460
	Perry	Shiawassee County Journal	1,175

TABLE XVIII-4. MICHIGAN WEEKLY AND SEMIWEEKLY NEWSPAPERS: 1984 (cont.)

County	City	Name[a]	Circulation[b]
Tuscola	Caro	Tuscola County Advertiser	14,172
	Cass City	Cass City Chronicle	3,790
	Mayville	Mayville Monitor	1,354
	Millington	Millington Herald-Lakeville Aeria	2,829
	Vassar	Pioneer Times	2,326
Van Buren	Bangor	The Express	578
	Decatur	Decatur Republican	1,850
	Paw Paw	The Courier-Leader	3,430
Washtenaw	Chelsea	Chelsea Standard	4,094
	Dexter	The Dexter Leader	1,895
	Manchester	The Manchester Enterprise	1,618
	Milan	Area Leader	2,789
Wayne	Allen Park	The Allen Parker	11,175
	Belleville	Belleville Enterprise	4,914
	Canton Twp.	Canton Eagle	1,778
		Canton Observer	9,191
	Dearborn	Dearborn Press & Guide	25,000
	Dearborn Heights	Dearborn Heights Leader	11,000
	Ecorse	Ecorse Advertiser	6,000
		Ecorse Enterprise	950
	Flat Rock	The Guardian	5,100
	Garden City	Garden City Observer	10,296
	Grosse Ilie	The Downriver News-Herald	7,600
	Grosse Ilie Twp.	The Ilie Camera	2,777
	Grosse Pointe	Grosse Pointe News	17,276
	Hamtramck	The Citizen	12,456
	Inkster	Inkster Ledger Star	2,579
	Lincoln Park	The Lincoln Parker	19,975
	Livonia	Livonia Observer	27,631
	Melvindale	Melvindale Messenger	3,625
	Northville	Record	5,353
	Plymouth	The Community Crier	21,041
		Plymouth Observer	9,191
	Redford	Redford Observer	11,161
	River Rouge	River Rouge Herald	6,800
	Riverview	The Riverview News-Herald	4,700
	Flatrock	The Pulse Weekly News and Woodhaven Progress	10,868
	Romulus	Romulus Roman	5,039
	Southgate	The Southgate Sentinel	8,825
	Taylor	The Taylor Tribune	17,875
	Trenton	Trenton News-Herald	7,800
		Trenton Times	7,600
	Wayne	Wayne Eagle	6,069
	Westland	Westland Eagle	17,459
		Westland Observer	10,296
	Woodhaven	The News-Herald	3,300
	Wyandotte	Wyandotte News Herald	16,600

SOURCE: Michigan Press Association, Michigan Newspaper Directory and Rate Book, 1985.

a. This list includes all members of the Michigan Press Association; no information is available for other papers which are not members.
b. Circulation figures are taken from the statement of ownership required by the U.S. Postal Service, Audit Bureau of Circulation, and Certified Audit Circulation.

TABLE XVIII-5. BUSINESS AND RESIDENCE TELEPHONES SERVICED BY A.T. & T. IN MICHIGAN AND THE UNITED STATES: YEARS ENDED 31 DECEMBER 1963-1982

	Michigan				United States			
Year	Business	Residential	Total	Percentage of households with service[a]	Business	Residential	Total	Percentage of households with service[a]
1963	914,200	2,726,300	3,640,500	88	23,609,400	60,840,900	84,450,300	81
1964	972,700	2,862,000	3,834,700	91	24,716,600	64,070,800	88,787,400	83
1965	1,020,400	3,044,600	4,065,000	93	26,008,300	67,650,500	93,658,800	85
1966	1,083,900	3,217,100	4,301,000	94	27,413,500	71,372,100	98,785,600	98
1967	1,139,900	3,368,000	4,507,900	94	28,929,300	74,822,600	103,751,900	88
1968	1,198,600	3,512,800	4,711,400	93	30,356,100	78,899,500	109,255,600	89
1969	1,265,800	3,691,500	4,957,300	95	32,220,600	82,980,100	115,200,700	90
1970	1,307,900	3,826,800	5,134,700	95	33,304,800	86,850,000	120,221,000	92
1971	1,332,400	4,012,200	5,344,600	97	34,444,900	90,695,900	125,140,800	93
1972	1,393,000	4,193,000	5,586,000	95	35,989,500	95,613,000	131,602,500	92
1973	1,440,927	4,419,084	5,860,011	98	37,434,884	100,853,505	138,228,389	94
1974	1,487,568	4,577,214	6,064,782	98	38,748,513	105,222,939	143,971,452	94
1975	1,490,220	4,761,455	6,251,675	98	39,497,650	109,510,153	149,007,803	94
1976	1,548,286	4,977,160	6,525,446	99	40,682,411	114,490,857	155,173,288	95
1977	1,611,508	5,157,834	6,769,342	100	42,319,549	119,752,597	162,072,146	96
1978	1,654,291	5,326,848	6,981,139	100	44,284,209	124,742,739	169,026,948	97
1979	1,730,220	5,514,554	7,244,774	101	45,951,980	129,583,132	175,535,112	98
1980	1,737,373	5,567,635	7,305,008	99	47,213,748	133,210,275	180,424,023	96
1981	1,727,161	5,526,140	7,253,301	98	47,760,076	134,111,520	181,891,596	96
1982	1,502,873	4,567,734	6,079,607	--	38,602,973	101,502,535	140,105,508	--

SOURCE: Federal Communications Commission, Statistics of Communications Common Carriers, (Washington, D.C.: annually), Table 6 (1984).

[a] Households with service are the sum of residence main, apartment house PBX and residence service main telephones, and other residence PBX systems. There tends to be a slight overstatement of the proportion of households with telephone service. Collection of this statistic discontinued after 1981.

TABLE XVIII-6. SELECTED DATA OF CLASS A TELEPHONE CARRIERS IN MICHIGAN: YEARS ENDED 31 DECEMBER 1962-1982

Year	Miles of wire in cable (1,000)	Miles of aerial wire (1,000)	Miles of radio relay system	Central offices	Number of calls originating from company and service telephones[a] (millions)	
					Local	Toll
1962	15,830	367	1,657	661	5,412	171
1963	16,534	360	1,749	667	5,704	186
1964	17,686	337	1,803	705	6,009	306
1965	19,062	318	2,048	712	6,450	235
1966	20,841	308	2,206	725	6,755	264
1967	23,032	288	2,191	805	7,220	295
1968	25,217	264	2,280	817	7,441	333
1969	27,503	226	2,432	833	7,956	351
1970	29,510	184	2,421	837	8,324	383
1971	31,279	157	2,588	848	8,887	407
1972	33,273	128	2,335	862	9,278	566
1973	35,825	108	2,801	883	9,672	676
1974	38,416	97	2,853	903	10,113	699
1975	40,691	76	3,473	926	10,116	976
1976	42,532	61	2,939	934	10,615	1,055
1977	44,328	52	2,362	941	11,105	1,186
1978	46,438	39	2,324	954	11,752	1,238
1979	48,869	33	2,357	959	12,080	1,286
1980	50,743	27	2,917	972	12,470	1,328
1981	52,941	24	2,648	981	13,191	1,476
1982	54,170	20	3,279	987	12,545	1,566

SOURCE: Federal Communications Commission, *Statistics of Communications Common Carrier*, (Washington, D.C.: annually), Table 8 (1984).

a. Partly estimated.

XIX. ENERGY PRODUCTION AND CONSUMPTION

The Energy Administration, Michigan Department of Commerce, has developed data one energy usage and prospects for the state, in total and by type. The U.S. Department of Energy is another source of broad energy statistics. Consumption of motor fuels is estimated by the U.S. Highway Administration on the basis of motor fuel tax receipts. The Michigan Public Service Commission publishes financial statistics on the operations of natural gas distribution and electric utilities. The Federal Power Commission is a leading source of data on the physical aspects of electricity production. The American Gas Association publishes data on gas utilities in its annual Gas Facts.

Consumption of fuels for heat and power is a regular feature of the Census of Manufactures, conducted twice each decade. The Housing Census yields information about the kinds of fuel used for space and water heating and cooking.

Related data on oil and gas wells and natural gas processing appear in Chapter XIII. A list of oil refineries in the state is presented in Chapter XV.

Data on the plant and consumer of each electric and gas distribution utility are available from the records of the Michigan Public Service Commission in the Michigan Department of Commerce. The PSC is responsible for regulating public utilities.

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TABLE XIX-1. PER CAPITA AND TOTAL ENERGY CONSUMPTION IN MICHIGAN AND THE UNITED STATES: 1961-1984

Year	Per capita (Million BTU)		Total (Trillion BTU)		Michigan as a percentage of United States	
	Michigan	United States	Michigan	United States	Per capita	Total
1961	233	243	1,840.4	44,455.0	96	4.1
1962	246	251	1,848.6	46,530.6	98	4.0
1963	255	256	2,054.5	48,326.1	100	4.3
1964	260	264	2,125.4	50,496.9	98	4.2
1965	271	272	2,261.2	52,685.9	100	4.3
1966	284	285	2,418.2	55,660.0	100	4.3
1967	287	292	2,480.0	57,571.0	98	4.3
1968	301	306	2,617.5	61,004.8	98	4.3
1969	311	319	2,726.6	64,193.9	97	4.2
1970	303	326	2,700.0	66,435.6	93	4.1
1971	311	328	2,792.1	67,892.1	95	4.1
1972	327	340	2,951.6	71,259.0	96	4.1
1973	335	351	3,039.7	74,260.9	95	4.1
1974	319	340	2,903.5	72,522.8	94	4.0
1975	312	327	2,845.2	70,539.1	95	4.0
1976	324	342	2,973.5	74,341.3	95	4.0
1977	314	347	2,873.0	76,260.2	90	3.8
1978	319	352	2,936.0	78,086.4	91	3.8
1979	316	351	2,925.0	78,889.6	90	3.7
1980	301	334	2,787.2	75,986.4	90	3.7
1981	282	322	2,599.1	74,013.8	88	3.5
1982	268	305	2,443.9	70,776.0	88	3.5
1983	259	301	2,346.4	70,462.7	86	3.3
1984	279	314	2,523.8	74,045.1	89	3.4

SOURCE: Developed from the Energy Information Administration, U.S. Department of Energy, *Federal Energy Data Report*, (Washington, D.C.: U.S. Government Printing Office, 1986).

TABLE XIX-3. PER CAPITA ENERGY CONSUMPTION IN MICHIGAN AND THE UNITED STATES: 1960, 1970, 1980, AND 1982-1984

	Consumption per capita					
	1960	1970	1980	1982	1983	1984
	(Thousands of BTU)					
Residential						
Michigan	57	77	78	73	72	73
United States	46	65	66	64	63	64
Commercial						
Michigan	24	38	46	43	43	44
United States	26	41	47	47	47	48
Industrial						
Michigan	101	122	110	89	90	95
United States	112	141	135	113	110	118
Transportation						
Michigan	49	66	67	62	54	67
United States	59	79	87	82	82	84
Total						
Michigan	232	303	301	268	259	279
United States	243	326	334	305	301	314

SOURCE: Energy Information Administration, Department of Energy, *State Energy Data Report Supplement, Consumption Estimates: 1960-1984*, (Washinton, D.C.: May 1985).

TABLE XIX-4. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE RESIDENTIAL SECTOR: 1962-1984

Year	Coal	Natural gas	Petroleum products	Total energy consumed
1962	20.6	242.7	117.1	491.4
1963	17.4	250.4	114.9	498.0
1964	13.4	259.0	109.1	503.5
1965	15.2	279.7	111.8	537.3
1966	15.7	296.3	114.2	569.0
1967	11.9	312.2	123.6	600.4
1968	11.2	325.5	127.3	631.7
1969	9.6	343.6	126.3	662.5
1970	7.1	350.6	129.8	687.4
1971	7.1	354.4	142.1	715.6
1972	5.1	364.9	152.3	747.4
1973	4.9	348.4	147.7	735.7
1974	3.8	354.4	136.4	732.7
1975	3.2	341.6	134.2	722.3
1976	3.5	345.9	134.8	732.1
1977	3.0	304.9	133.5	694.3
1978	2.3	333.5	135.1	728.1
1979	1.1	376.0	80.6	714.4
1980	2.7	396.6	66.4	726.4
1981	1.8	370.8	57.9	679.1
1982	2.2	368.1	51.8	669.0
1983	1.6	351.3	45.4	652.2
1984	2.7	349.2	58.9	659.6

SOURCE: Energy Information Administration, U.S. Department of Energy, Michigan Energy Data and U.S. Energy Data, June 1983; and State Energy Data Report, May 1986.

TABLE XIX-5. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE COMMERCIAL SECTOR: 1962-1984

Year	Coal	Natural gas	Petroleum products	Total energy consumed
1962	38.2	0.1	33.5	223.2
1963	32.4	0.1	33.5	227.7
1964	25.0	0.1	32.5	232.7
1965	28.1	0.1	32.7	253.8
1966	29.1	0.1	32.1	274.1
1967	22.0	0.1	30.1	284.6
1968	20.8	0.1	31.4	304.5
1969	17.9	0.1	32.6	325.8
1970	13.2	*	33.3	335.5
1971	13.2	*	34.8	359.6
1972	9.5	*	38.3	380.4
1973	9.1	*	36.6	409.9
1974	7.1	*	34.2	414.7
1975	6.0	*	33.1	394.7
1976	6.5	*	36.0	401.3
1977	5.6	*	36.5	360.1
1978	4.3	*	35.4	373.6
1979	2.0	*	22.0	403.8
1980	5.0	*	26.2	422.3
1981	3.3	*	21.2	397.7
1982	4.1	*	20.6	393.9
1983	2.9	*	21.9	388.5
1984	5.0	*	26.0	399.5

SOURCE: Energy Information Administration, U.S. Department of Energy, Michigan Energy Data and U.S. Energy Data, June 1983, and State Energy Data Report, May 1986.

* Btu value less than 0.05, and physical unit value less than 0.5.

TABLE XIX-6. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE INDUSTRIAL SECTOR: 1962-1984

Year	Coal	Natural gas	Petroleum products	Indus. Hydro-power	Electricity sales	Electrical[a] energy losses	Total energy consumed
1962	337.0	145.1	188.3	1.4	47.7	114.6	834.2
1963	378.0	153.3	192.0	1.3	53.3	127.4	905.3
1964	381.2	172.3	192.7	1.4	58.4	139.0	945.0
1965	385.6	198.6	200.4	1.5	66.0	157.4	1009.4
1966	393.6	232.2	203.7	1.6	73.4	175.9	1080.4
1967	357.8	270.7	191.9	1.8	74.8	178.3	1075.2
1968	381.6	260.5	193.9	1.8	82.2	195.8	1115.8
1969	339.0	298.0	202.4	1.7	88.4	210.8	1140.2
1970	320.9	269.9	202.3	1.3	85.9	208.2	1088.4
1971	320.7	283.8	189.5	1.6	93.1	225.2	1114.0
1972	331.2	281.9	207.3	1.5	101.9	244.6	1168.4
1973	282.7	330.5	213.9	1.7	112.3	269.0	1210.2
1974	210.5	328.5	199.0	1.4	103.3	252.0	1094.6
1975	246.7	306.4	180.9	1.3	98.5	237.7	1071.5
1976	224.9	310.9	220.5	1.3	113.3	272.7	1143.6
1977	188.8	272.1	242.3	1.3	117.8	284.2	1106.6
1978	168.1	282.9	239.8	1.4	121.5	297.2	1110.9
1979	209.2	278.7	217.2	1.3	120.1	289.9	1116.3
1980	199.9	254.8	203.5	1.2	104.6	254.3	1018.3
1981	184.7	237.3	141.1	1.2	105.3	251.0	920.6
1982	168.8	198.0	126.7	1.2	94.2	226.0	814.9
1983	159.0	180.8	127.6	1.2	102.9	246.1	817.5
1984	147.1	203.7	136.9	1.2	111.1	259.2	859.2

SOURCE: Energy Information Administration, U.S. Department of Energy, *Michigan Energy Data*, June 1983; and *State Energy Data Report*, May 1986.

a. Incurred in the generation and transmission of electricity plus plant use and unaccounted for electrical energy losses.

TABLE XIX-7. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE TRANSPORTATION SECTOR: 1962-1984

Year	Coal	Natural gas	Petroleum products	Total energy consumed
1962	1.3	1.9	396.5	399.7
1963	1.4	2.7	419.3	423.5
1964	1.4	4.7	438.1	444.2
1965	1.2	4.7	455.7	461.6
1966	1.1	7.1	486.5	494.7
1967	0.8	9.1	509.9	519.9
1968	0.8	8.5	556.1	565.4
1969	0.6	9.0	588.5	598.1
1970	0.5	10.7	577.5	588.6
1971	0.4	15.9	586.5	602.8
1972	0.3	16.6	638.5	655.3
1973	0.2	12.3	671.5	683.9
1974	0.1	11.2	650.1	661.4
1975	*	10.4	646.3	656.7
1976	*	12.0	684.5	696.5
1977	*	11.8	700.1	712.0
1978	0.0	3.6	719.9	723.5
1979	0.0	12.6	677.8	690.4
1980	0.0	12.7	607.5	620.2
1981	0.0	14.0	587.7	601.7
1982	0.0	13.7	552.4	566.2
1983	0.0	8.1	480.1	488.2
1984	0.0	11.0	594.4	605.5

SOURCE: Energy Information Administration, U.S. Department of Energy, *Michigan Energy Data and U.S. Energy Data*, June 1983; and *State Energy Data Report*, May 1986.

* Btu value less than 0.05, and physical unit value less than 0.5.

TABLE XIX-8. MICHIGAN ENERGY CONSUMPTION IN TRILLIONS OF BRITISH THERMAL UNITS BY THE ELECTRIC UTILITIES: 1962-1984

Year	Coal	Natural gas	Petroleum products	Hydro-electric power	Nuclear electric power	Total energy consumed
1962	298.5	2.7	2.8	17.3	*	321.3
1963	329.6	2.1	2.6	8.4	1.5	344.2
1964	359.8	2.5	2.3	10.9	2.3	377.7
1965	399.8	3.1	2.4	13.1	2.1	420.5
1966	457.5	2.6	4.5	16.9	4.0	485.5
1967	478.0	4.9	7.1	19.0	5.8	514.8
1968	519.1	7.1	7.3	15.6	4.8	553.8
1969	541.8	16.0	8.9	13.7	4.4	584.8
1970	487.0	66.3	34.0	12.4	4.1	603.8
1971	496.1	72.0	54.3	22.4	4.2	648.9
1972	497.4	60.5	59.6	43.0	22.9	683.6
1973	494.2	63.9	75.0	46.3	32.5	711.9
1974	488.4	70.5	85.2	49.1	4.6	697.8
1975	494.8	58.2	97.8	13.6	79.0	743.5
1976	482.5	54.7	99.1	38.4	109.4	784.2
1977	495.4	33.1	98.3	72.2	110.2	809.1
1978	496.5	37.6	127.9	79.5	143.4	884.9
1979	546.4	39.2	97.9	12.3	164.7	860.6
1980	532.0	27.3	65.0	70.3	173.3	868.0
1981	549.8	19.9	37.6	58.2	188.2	853.8
1982	521.3	13.2	15.6	33.7	166.1	750.0
1983	534.2	13.0	8.6	24.9	178.7	759.3
1984	571.6	10.1	8.1	15.7	152.0	757.5

SOURCE: U.S. Department of Energy, Energy Information Administration, State Energy Data Report (Washington, D.C.: May 1986).

* Btu value less than 0.05, and physical unit value less than 0.5.

TABLE XIX-2. ENERGY CONSUMPTION BY ENERGY TYPE, MEASURED IN TRILLIONS OF BRITISH THERMAL UNITS, IN MICHIGAN FOR SELECTED YEARS: 1960-1984

Type	1960	1965	1970	1975	1980	1981	1982	1983	1984
Coal	653.1	830.1	828.8	750.9	739.7	739.6	696.4	697.6	726.5
Natural gas (dry)	383.0	573.6	834.2	902.2	886.2	821.1	767.7	718.0	739.7
Petroleum, total	712.7	802.9	976.8	1092.2	968.7	845.6	767.1	683.5	824.3
Asphalt	19.5	15.0	25.8	25.8	23.3	15.2	13.0	18.2	18.5
Aviation gasoline	6.5	12.3	3.2	1.6	2.5	1.3	0.8	1.5	0.9
Distillate fuel	176.1	176.4	222.2	245.6	161.0	155.1	133.6	129.2	139.1
Jet fuel	13.1	19.1	36.4	28.2	37.1	36.7	32.6	33.6	37.3
Kerosene	23.1	33.3	17.7	7.6	7.0	5.6	4.2	3.2	3.3
LPG	11.3	14.9	23.4	27.8	24.7	20.3	25.7	25.8	41.6
Lubricants	15.1	18.3	19.1	16.7	19.9	19.0	17.4	18.2	19.4
Motor gasoline	345.6	410.0	508.7	568.7	509.7	487.4	463.2	381.0	488.3
Residual fuel	74.4	54.0	63.2	115.0	83.6	49.2	30.7	28.1	25.4
Other petroleum	28.0	49.6	57.1	55.2	99.9	55.8	45.9	44.9	50.5
Nuclear power	0.0	2.1	4.1	79.0	173.3	188.2	166.1	178.7	152.0
Hydroelectric power	35.3	14.6	13.7	14.9	71.5	59.4	34.9	26.1	16.9
Geothermal power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net interstate sales of electricity	31.2	38.7	42.3	5.9	-52.2	-54.7	11.6	42.5	64.4
Total energy consumed	1815.2	2262.1	2700.0	2845.2	2787.2	2599.1	2443.9	2346.4	2523.8

SOURCE: Energy Information Administration, U.S. Department of Energy, Michigan Energy Data, (Washington, D.C.: June 1983), and State Energy Data Report, (Washington, D.C.: May 1986).

TABLE XIX-10. ESTIMATED PROVED RECOVERABLE RESERVES OF WET NATURAL GAS IN MICHIGAN AND THE UNITED STATES: 31 DECEMBER 1954-1984

(Billions of cubic feet)

	Michigan wet natural gas				United States
Year	Non-associated[a]	Associated-dissolved[b]	Underground storage[c]	Total	United States Total
1954	31,194	85,703	213,203	330,100	211,710,732
1955	46,764	73,013	206,097	325,874	223,697,445
1956	45,596	82,098	234,092	361,786	237,774,569
1957	84,941	80,980	278,107	444,028	246,569,255
1958	121,669	104,627	271,817	498,113	254,142,037
1959	116,255	113,889	285,259	515,403	262,596,593
1960	116,015	128,427	341,316	585,758	263,758,800
1961	138,966	158,562	369,136	666,664	267,727,671
1962	128,620	144,733	377,207	650,560	273,765,604
1963	112,403	138,924	471,485	722,812	276,151,233
1964	151,853	127,372	495,051	774,276	281,251,454
1965	108,141	127,174	510,489	745,804	286,468,923
1966	73,556	118,999	580,576	773,131	289,332,805
1967	90,774	87,711	582,427	760,912	292,907,703
1968	77,274	79,909	600,243	757,426	287,349,856
1969	73,268	82,186	595,510	750,964	275,108,835
1970	211,134	112,530	616,007	939,671	290,746,408
1971	179,479	184,541	652,462	1,016,482	278,805,618
1972	293,938	385,580	617,297	1,296,815	266,084,846
1973	492,825	431,086	624,597	1,548,508	249,950,207
1974	477,613	455,230	525,411	1,458,254	237,132,497
1975	483,268	536,766	586,715	1,606,749	228,200,176
1976	528,778	524,475	544,893	1,598,146	216,026,074
1977	614,184	587,542	589,474	1,791,200	208,877,878
1978	607,556	562,190	598,835	1,768,581	200,301,707
1979	605,819	531,784	660,320	1,797,923	194,916,624
1979[d]	601,000	733,000	n.a.	1,334,000	208,335,000
1980[d]	668,000	883,000	n.a.	1,551,000	206,259,000
1981[d]	494,000	758,000	n.a.	1,252,000	209,434,000
1982	481,000	719,000	n.a.	1,200,000	209,254,000
1983	529,000	824,000	n.a.	1,353,000	209,046,000
1984	412,000	774,000	n.a.	1,193,000	205,984,000

SOURCE: Bureau of Mines, Minerals Yearbook--Metals, Minerals, and Fuels, 1947 through 1975 (Washington, D.C.: annually), Natural Gas Section, Table 16 (1975); American Petroleum Institute, special release; and U.S. Department of Energy, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves (annual).

a. Free gas not in contact with crude oil in the reservoir.
b. Associated gas is free gas in contact with crude oil in the reservoir; dissolved gas is gas in solution with crude oil in the reservoir.
c. Gas held in underground reservoirs for storage purposes only.
d. The U.S. Department of Energy now is solely responsible for estimating reserves. Their 1979 figures differ from those of the American Petroleum Institute. There is a large sampling error (20 percent) associated with the DOE estimates for Michigan.
n.a.: not available.

TABLE XIX-11. ESTIMATED PROVED RESERVES OF NATURAL GAS LIQUIDS AND CRUDE OIL IN MICHIGAN AND THE UNITED STATES: 31 DECEMBER 1962-1984

	Natural gas liquids[a] (thousand barrels)				Crude oil (million barrels)	
	Michigan			United States total		
Year	Nonassociated with oil	Associated-dissolved[b]	Total		Michigan	United States
1962	2,001	3,423	5,424	7,311,517	75	31,389
1963	2,048	3,278	5,326	7,673,978	69	30,970
1964	969	4,892	5,861	7,746,632	58	30,991
1965	1,565	3,351	4,916	8,023,534	53	31,352
1966	984	3,057	4,041	8,328,966	71	31,452
1967	1,461	2,083	3,544	8,614,231	63	31,377
1968	1,429	2,163	3,592	8,598,108	55	30,707
1969	1,375	2,681	4,056	8,143,174	52	29,632
1970	5,437	4,466	9,903	7,702,941	46	39,001[c]
1971	4,616	7,968	12,584	7,304,227	59	38,063[c]
1972	5,531	13,495	19,026	6,786,559	--	36,339[c]
1973	7,507	17,539	25,046	6,454,707	72	35,300[c]
1974	4,906	15,358	20,264	6,350,449	82	34,250
1975	3,984	16,649	20,633	6,267,830	93	32,682
1976	5,081	17,316	22,397	6,401,967	139	30,942
1977	11,183	34,015	45,198	5,994,365	133	29,486
1978	20,857	44,836	65,693	5,925,852	190	27,804
1979	28,245	43,281	71,526	5,655,323	176	27,051
1979[d]	n.a.	n.a.	112,000	6,615,000	159	28,810
1980[d]	n.a.	n.a.	112,000	6,728,000	205	29,805
1981[d]	n.a.	n.a.	102,000	7,068,000	240	29,426
1982[d]	n.a.	n.a.	97,000	7,221,000	184	27,858
1983[d]	n.a.	n.a.	105,000	7,901,000	209	27,735
1984[d]	n.a.	n.a.	84,000	7,643,000	180	28,446

SOURCE: Bureau of Mines, *Minerals Yearbook--Metals, Minerals, and Fuels*, 1960 through 1974 (Washington, D.C.: annually), Natural Gas Liquids section, Table 9, and Crude Petroleum and Products section, Table 13 (1975 data); American Petroleum Institute, special release; and U.S. Department of Energy, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves* (annual).

a. Natural gasoline, LP gases, and condensate.
b. Associated natural gas liquids are in contact with crude oil in the reservoir; dissolved natural gas liquids are in solution with crude oil in the reservoir.
c. Includes reserves in the Prudhoe Bay Permo-Triassic reservoir, discovered in 1968 and not included prior to 1970.
d. The U.S. Department of Energy now is solely responsible for estimating reserves. Their 1979 figures differ from those of the American Petroleum Institute. There is a large sampling error (20 percent) associated with the DOE estimates for Michigan.
n.a.: Not available.

TABLE XIX-13. OIL AND NATURAL GAS PRODUCTION IN MICHIGAN, BY COUNTY: 1982

County	Oil (barrels)	Natural gas (000 cubic feet)	County	Oil (barrels)	Natural gas (000 cubic feet)
Allegan	114,908	11,422	Livingston	1,177	284,460
Antrim	91,873	311,582	Macomb	6,185	4,221,680
Arenac	168,754	0	Manistee	6,966,356	41,892,896
Barry	7,172	0	Mason	157,054	1,209,293
Bay	281,312	0	Mecosta	17,382	5,710
Benzie	181,986	191,100	Midland	172,419	0
Berrien	638	0	Missaukee	1,051,199	2,208,182
Calhoun	943,647	2,033,437	Monroe	5,211	0
Cass	80,673	0	Montcalm	95,475	0
Cheboygan	858	0	Muskegon	9,313	0
Clare	431,351	456,873	Newaygo	32,923	0
Crawford	1,483,947	2,696,092	Oakland	197,541	1,575,624
Eaton	620,081	3,969,646	Oceana	19,119	0
Grand Traverse	3,558,310	27,869,369	Ogemaw	551,131	58,645
Genesee	19,924	58,483	Osceola	68,037	4,318
Gladwin	289,975	0	Oscoda	3,696	0
Gratiot	6,967	0	Otsego	6,133,240	12,293,598
Hillsdale	1,032,759	5,413,183	Ottawa	10,389	133,093
Huron	1,882	0	Presque Isle	23,789	0
Ingham	904,119	2,217,482	Roscommon	416,684	490,190
Isabella	262,112	0	Saginaw	40,761	0
Jackson	1,380	0	Shiawassee	6,309	0
Kalamazoo	1,128	0	St. Clair	388,221	1,381,143
Kalkaska	3,358,642	26,463,333	Tuscola	91,534	0
Kent	99,401	0	Van Buren	18,779	0
Lake	63,389	0	Washtenaw	706	0
Lapeer	331,385	1,883,658	Wayne	4,024	0
Lenawee	483	0	Wexford	507,731	2,856,292
			Total	31,335,441	142,190,784

SOURCE: Michigan Department of Natural Resources, Michigan's Oil and Gas Fields, 1982, Annual Statistical Summary 36 (Lansing: 1984), p. 5.

TABLE XIX-14. OIL PRODUCTION IN MICHIGAN, BY GEOLOGIC SYSTEM AND FORMATION: 1980, 1981, 1982 AND CUMULATIVE THROUGH 1982

	First year of production	Production (in barrels)			
		1980	1981	1982	Cumulative thru 1982
Mississippian					
Marshall	1938	925	1,068	1,418	87,615
Berea	1925	55,596	110,178	176,608	2,871,930
Devonian					
Traverse	1927	457,813	460,657	480,438	108,064,000
Dundee-Reed City	1927	1,506,950	1,273,415	1,495,947	345,505,595
Detroit River	1939	2,827,265	2,942,586	3,088,530	79,725,826
Silurian					
Salina-Niagaran	1952	27,697,663	26,596,115	25,022,687	240,776,116
Ordovician					
Trenton-Black River	1935	1,262,251	1,128,100	1,044,424	124,391,996
Prairie Du Chien	1960	--	--	139	7,981
Total barrels, all formations		33,808,463	32,512,119	31,310,191	901,431,059

SOURCE: Michigan Department of Natural Resources, *Michigan's Oil and Gas Fields, 1980, 1981, and 1982*, Annual Statistical Summary, (Lansing: annually), Table 30.

TABLE XIX-15. GAS PRODUCTION IN MICHIGAN, BY GEOLOGIC SYSTEM AND FORMATION: 1980, 1981, 1982, AND CUMULATIVE THROUGH 1982

	First year of production	Production (in thousands of cubic feet)			
		1980	1981	1982	Cumulative thru 1982
Mississippian					
Stray-Marshall	1931	21,313	8,228	10,028	213,696,391
Berea	1936	28,849	34,802	0	11,054,323
Devonian					
Antrim Shale	1947	375,883	355,809	313,722	3,011,072
Traverse	1934	620,738	644,611	501,058	10,814,696
Dundee-Reed City	1929	15,118	1,675	0	41,533,999
Detroit River	1946	1,885,846	2,051,953	3,733,987	82,672,132
Silurian					
Salina-Niagaran	1929	149,445,361	140,823,661	130,979,556	1,395,832,632
Ordovician					
Trenton-Black River	1954	5,944,814	5,678,680	5,413,183	224,481,295
Prairie Du Chien	1982	--	--	1,180,492	1,180,492
Total Mcf, All formations		158,337,922	149,599,419	142,132,026	1,984,285,052

SOURCE: Michigan Department of Natural Resources, *Michigan's Oil and Gas Fields, 1980, 1981, and 1982*, Annual Statistical Summary (Lansing: annually), Table 31.

TABLE XIX-16. MICHIGAN NATURAL GAS - STORAGE HISTORY, 1941-1983

As of year end	Storage fields activated	County	Incremental capacity (Bcf)	Total cyclic capacity (Bcf)
1941	Austin (MW)	Mecosta	13	13
1947	Reed City (MW)	Osceola & Lake	18	31
1947	Cranberry Lake (MGS)	Clare & Missaukee	13	44
1947	Winterfield (MGS)	Clare & Osceola	33.2	77.2
1948	Goodwell (MW)	Newaygo	19	96.2
1950	Lincoln-Freeman (MW)	Clare	21	117.2
1950	Winfield (MW)	Montcalm	12	129.2
1951	Orient (MW)	Clare & Osceola	6	135.2
1951	Norwich (MW)	Newaygo	5	140.2
1953	Taggert (MC)	Mecosta & Montcalm	54	194.2
1956	Coldwater (MW)	Isabella	8	202.2
1957	Croton (MW)	Newaygo	4	206.2
1958	New Haven (MC)	Gratiot & Montcalm	12	218.2
1960	North Hamilton (MW)	Clare	8	226.2
1960	Overisel (CP)	Allegan	24	250.2
1961	Ira (CP)	St. Clair	4	254.2
1961	Marysville (SM)	St. Clair	0.4	254.6
1962	Riverside (CP)	Missaukee	2.3	256.9
1962	Howell (P.E.)	Livingston	20	276.9
1963	Loreed (MW)	Osceola & Lake	45	321.9
1963	Salem (CP)	Allegan	10	331.9
1965	Belle River (MC)	St. Clair	44	375.9
1965	Lennox (CP)	Macomb	1.5	377.4
1966	Ray (CP)	Macomb	46	423.4
1968	Northville (CP)	Wayne & Washtenaw	11.8	435.2
1971	Partello (MGU)	Calhoun	2.0	437.2
1971	Puttygut (CP)	St. Clair	11	448.2
1972	Four Corners (CP)	St. Clair		
1972	Swan Creeks (CP)	St. Clair	2.8	451.0
1972	Columbus (MC)	St. Clair	18	469.0
1973	West Columbus (MC)	St. Clair	20	489.0
1974	Marysville (SM)	St. Clair	3.5	492.5
1975	Muttonsville (MW)	Macomb	14	506.5
1975	Anderson (MGU)	Calhoun	1	507.5
1975	Campbell (MGU)	Calhoun	1	508.5
1975	Calhoun County (BC)	Calhoun	0.2	525.6
1976	Hessen (CP)	St. Clair	13.6	522.1
1977	Marsac Creek (CP)	St. Clair	3.3	525.4
1978	Capac (MW)	St. Clair	30.0	555.6
1980	Cold Springs 12 (ANR)	Kalkaska	25.0	580.6

TABLE XIX-16. MICHIGAN NATURAL GAS - STORAGE HISTORY, 1941-1983 (cont.)

As of year end	Storage fields activated	County	Incremental capacity (Bcf)	Total cyclic capacity (Bcf)
1980	Rapid River 35 (ANR)	Kalkaska	15.0	595.6
1980	Chester 15 (MW)	Otsego	16.8	612.4
1981	Charlton 1 (MW)	Otsego	16.3	628.7
1981	Cold Springs 31 (ANR)	Kalkaska	4.9	633.6
1981	East Kalkaska 1 (ANR)	Kalkaska	1.0	634.6
1981	Excelsior 6 (ANR)	Kalkaska	4.9	639.5
1981	Collin Field (SM)	St. Clair	2.0	641.5

SOURCE: Michigan Public Service Commission as reported in Michigan Department of Commerce, Energy Administration, Michigan Energy Data Book (Lansing: 1983), pp. 44 and 45.

Key: MW = Michigan Wisconsin Pipeline Company
MC = Michigan Consolidated Gas Company
MGS = Michigan Gas Storage Company
MGU = Michigan Gas Utilities Company
CP = Consumers Power Company
SM = Southeastern Michigan Gas Company
P.E.= Panhandle Eastern Pipeline Company
BC = Battle Creek Gas Company
ANR = ANR Storage Company

TABLE XIX-17. CAPACITY OF OPERABLE PETROLEUM REFINERIES IN MICHIGAN AS OF JANUARY 1, 1985

	Crystal Refining Co., Carson City	Lakeside Refining Co., Kalamazoo	Marathon Petroleum Oil Co., Detroit	Total Petroleum Inc., Alma	Total
(Measured in barrels per stream day, except where noted)					
Crude capacity:					
Operating barrels per calendar day	3,000	5,000	68,500	40,000	116,500
Operating barrels per stream day	6,000	5,600	71,000	42,000	124,600
Charge capacity:					
Vacuum distillation	0	0	26,000	0	26,000
Catalytic cracking (fresh)	0	0	27,000	18,000	45,000
Catalytic cracking (recycle)	0	0	1,300	0	1,300
Catalytic reforming	0	0	17,000	14,000	31,000
Catalytic hydrotreating	0	0	17,500	19,200	36,700
Production capacity					
Alkylation			4,000	3,500	7,500
Asphalt			8,650		8,650

SOURCE: Energy Information Administration, U.S. Department of Energy, Petroleum Supply Annual 1984, (Washington, D.C.: June 1985), Vol. 1, Table 32.

TABLE XIX-18. DISTRIBUTION OF BITUMINOUS COAL AND LIGNITE FOR CONSUMPTION IN MICHIGAN, BY TYPE OF CUSTOMER: 1959-1985

(Thousand short tons)

Year	Electric utilities	Coke and gas plants	Retail dealers	All others	Total
1959	10,675	4,489	2,892	9,175	27,231
1960	10,191	4,517	2,458	7,910	25,076
1961	9,997	4,121	2,514	7,695	24,327
1962	12,276	4,249	2,358	8,372	27,255
1963	13,582	4,813	2,154	9,339	29,888
1964	14,690	5,309	1,771	9,166	30,936
1965	16,966	5,338	2,032	9,075	33,411
1966	18,464	5,012	1,831	9,463	34,770
1967	19,605	4,591	1,485	9,278	34,959
1968	20,832	4,914	1,474	9,567	36,787
1969	21,432	4,823	1,166	8,253	35,674
1970	23,244	4,942	1,008	7,439	36,633
1971	19,416	4,861	817	7,531	32,625
1972	21,424	5,378	649	7,634	35,085
1973	20,294	4,876	561	5,954	31,685
1974	20,623	3,835	351	4,441	29,250
1975	21,802	5,343	262	3,883	31,290
1976	21,197	4,493	248	3,867	29,805
1977[c]	21,165	4,029	160	3,447	28,801
1978[c]	21,192	2,928	73	3,415	27,608
1979[c]	24,047	4,026	35	4,276	32,385
1980	23,003	3,339[d]	308[e]	4,554	31,206
1981	23,122	3,225[d]	182[e]	3,624	30,153
1982	20,961	2,820[d]	233[e]	3,529	27,544
1983	20,960	2,222[d]	165[e]	3,899	27,246
1984	23,339	1,588[d]	291[e]	4,151	29,369
1985	23,009	2,552[d]	251[e]	3,763	29,573

SOURCE: Bureau of Mines, Minerals Yearbook--Metals, Minerals, and Fuels, 1947 through 1975 (Washington, D.C.: annually), Crude Petroleum and Products section, Tables 16 and 24 (1975 data); Bureau of Mines, special (1976-1979 data); thereafter, U.S. Department of Energy, Coal Distribution, (Washington, D.C.: annually), Table 7a.

a. By product and water gas plants.
b. Industrial; includes electric utilities.
c. Prior to the fourth quarter of 1977, data collection was on a voluntary basis, with some estimating by the Bureau of Mines. Reporting now is mandatory. Since the third quarter of 1977, only actual company figures are tallied to develop state and national totals. The data for 1977 and 1978 are not strictly comparable with each other, therefore, nor with previous years' figures.
d. Coke plants only.
e. Residential and commercial.

TABLE XIX-9. MICHIGAN CONSUMPTION OF REFINED PETROLEUM PRODUCTS: 1963-1984

(In thousands of barrels)

Year	Asphalt	Aviation gasoline	Distillate	Jet fuel	Kerosene	LPG	Lubricants	Gasoline	Residual	All other petroleum	Total refined petroleum products
1963	2,614	1,826	30,108	3,076	6,145	3,813	2,461	71,934	10,136	6,391	138,505
1964	2,093	2,058	29,363	3,327	6,033	3,509	2,584	74,245	9,178	8,743	141,133
1965	2,264	2,431	30,287	2,462	5,880	3,716	3,025	78,044	8,594	8,765	146,468
1966	3,137	3,014	31,328	4,175	4,604	4,417	3,142	82,423	8,103	9,321	153,664
1967	3,159	3,278	36,559	5,158	2,880	5,439	2,554	84,448	5,647	9,216	158,341
1968	3,593	4,300	36,544	6,237	2,922	5,716	2,806	90,801	5,764	9,696	168,379
1969	3,257	4,351	36,928	6,784	2,788	6,626	3,099	95,369	7,278	9,948	176,429
1970	3,881	641	38,141	6,515	3,124	6,202	3,157	96,833	10,056	10,208	178,758
1971	3,766	239	41,724	6,309	3,018	6,755	2,785	99,548	11,173	8,907	184,225
1972	4,638	443	47,365	6,077	2,645	7,993	2,982	105,198	13,078	9,779	200,198
1973	5,366	521	46,932	6,219	1,995	8,092	3,676	110,100	15,822	10,039	208,762
1974	4,871	193	43,673	5,701	1,600	7,845	3,521	107,057	16,692	10,377	201,528
1975	3,886	315	42,170	5,061	1,349	7,475	2,751	108,256	18,291	9,787	199,342
1976	3,487	380	44,130	5,735	1,551	8,748	3,056	113,506	21,102	12,835	214,527
1977	4,142	438	44,829	6,290	1,421	8,793	3,272	114,812	22,126	14,601	220,723
1978	4,376	469	45,149	6,499	1,360	9,051	3,513	117,526	25,452	15,570	228,966
1979	4,163	384	31,268	6,639	1,535	7,515	3,676	108,261	19,046	17,836	200,323
1980	3,507	488	27,643	6,646	1,233	6,736	3,274	97,025	13,289	18,072	177,913
1981	2,284	250	26,630	6,565	992	5,572	3,140	92,783	7,825	10,082	156,122
1982	1,965	157	22,943	5,835	743	7,107	2,863	88,179	4,891	8,282	142,966
1983	2,739	292	22,177	6,025	557	7,150	2,998	72,522	4,463	7,989	126,912
1984	2,790	181	23,882	6,682	580	11,571	3,197	92,952	4,037	9,200	155,070

SOURCE: Michigan Department of Commerce, Energy Information Administration, Michigan Energy Data Report, 1960 through 1980, July 1982; and Michigan Energy Data, Energy Information Administration, U.S. Department of Energy (Washington, D.C.), 1986.

TABLE XIX-12. PRODUCTION AND DISPOSITION OF NATURAL GAS IN MICHIGAN AND INTERSTATE NATURAL GAS MOVEMENTS TO AND FROM MICHIGAN: 1964-1983

(Millions of cubic feet)

Year	Production		Disposition			Average wellhead value (cents per mcf)	Interstate movements	
	From gas wells	From oil wells	Used for repressuring	Vented and flared	Marketed production		Deliveries to Canada	Receipts from other states
1964	21,100	12,600	1,608	704	31,388	25.4	0	493,665
1965	24,700	12,200	1,900	442	34,558	25.1	0	547,370
1966	26,868	16,121	8,353	516	34,120	25.2	20,174	653,316
1967	22,709	20,383	7,642	1,861	33,589	24.7	40,418	698,475
1968	24,151	19,779	2,330	1,120	40,480	25.1	68,045	742,934
1969	22,285	16,405	1,719	808	36,163	25.7	29,770	776,010
1970	23,774	16,264	378	809	38,851	26.7	10,643	791,773
1971	10,968	15,482	788	0	25,662	26.4	14,236	839,385
1972	13,523	21,730	0	1,032	34,221	30.7	15,426	823,515
1973	23,272	22,424	0	1,117	44,579	39.2	14,736	925,952
1974	45,745	24,719	63	1,268	69,133	50.4	13,232	869,059
1975	71,907	31,994	176	1,612	102,113	63.4	10,153	826,505
1976	81,628	40,003	327	2,042	119,262	89.5	7,461	742,482
1977	86,037	47,189	981	2,291	129,954	101.0	0	664,617
1978	97,866	54,318	1,401	2,736	148,047	119.7	0	664,144
1979	102,048	62,812	2,169	2,960	159,731	174.0	393	805,953
1980	89,651	74,459	2,375	3,433	158,302	235.5	257,647	862,303
1981	93,198	65,095	2,390	3,310	152,593	286.0	283,347	728,736
1982	95,461	63,310	2,400	3,320	144,468	319.0	251,634	829,747
1983	74,486	70,088	2,340	3,324	138,910	358.0	218,264	632,937

SOURCE: Bureau of Mines, Minerals Yearbook--Metals, Minerals, and Fuels, 1964 through 1975 (Washington, D.C.: annually), Natural Gas Section, Table 16 (1975); and Bureau of Mines, special release (1976, 1977 and 1978 data); U.S. Department of Energy, Natural Gas Production and Consumption 1979, (Washington, D.C.: annually) January 1981; U.S. Department of Energy, Natural Gas Annual, 1980, and Michigan Department of Natural Resources, special release.

TABLE XIX-19. TYPICAL ELECTRIC RATES FOR RESIDENTIAL SERVICES IN MICHIGAN CITIES OF 10,000 OR MORE INHABITANTS: 1 JANUARY 1984

Community	250 kwh	500 kwh	750 kwh	1000 kwh	2500 kwh	Utility
Adrian	$14.00	$28.01	$39.66	$55.09	$135.33	Consumers Power Co.
Albion	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Allen Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Alpena	17.83	31.72	45.60	59.48	142.78	Alpena Power Co.
Ann Arbor	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Battle Creek	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Bay City	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Bay City[a]	13.80	27.60	39.98	55.02	136.25	Bay City City of
Benton Harbor	14.38	25.00	35.63	46.65	120.80	IN & MI Electric Co.
Berkley	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Beverly Hills	15.95	31.90	43.47	65.84	154.16	Detroit Eidson Co.
Big Rapids	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Birmingham	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Cadillac	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Clawson	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Dearborn	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Dearborn Hgts	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Detroit	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Drayton Plains	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
East Detroit	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
E. Grand Rapids	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
E. Lansing[a]	14.72	26.94	39.91	52.88	132.90	Lansing City of
E. Lansing[a]	14.72	26.94	39.91	52.88	135.20	Lansing City of
Ecorse	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Escanaba[a]	22.66	41.66	59.16	76.66	181.66	Escanaba City of
Farmington	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Farmington Hls	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Ferndale	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Flint	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Fraser	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Garden City	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Grand Haven[a]	18.80	34.76	51.92	69.09	181.82	Grand Haven City of
Grand Rapids	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Grandville	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Grosse Pte Frms	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.

TABLE XIX-19. TYPICAL ELECTRIC RATES FOR RESIDENTIAL SERVICES IN MICHIGAN CITIES OF 10,000 OR MORE INHABITANTS: 1 JANUARY 1984 (cont.)

Community	250 kwh	500 kwh	750 kwh	1000 kwh	2500 kwh	Utility
Grosse Pte Pk	$15.95	$31.90	$43.47	$65.84	$154.16	Detroit Edison Co.
Grosse Pte Wds	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Hamtramck	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Harper Wds	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Hazel Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Highland Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Holland	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Holland[a]	15.50	28.50	37.65	50.65	128.65	Holland City of
Holt	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Inkster	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Jackson	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Jenison	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Kalamazoo	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Kentwood	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Lakeview	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Lansing[a]	14.72	26.94	39.91	52.88	132.90	Lansing City of
Lansing[a]	14.72	26.94	39.91	52.88	132.90	Lansing City of
Lincoln Pk	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Livonia	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Madison Hgts	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Marquette[a]	23.23	41.56	59.89	78.22	164.20	Marquette City of
Melvindale	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Menominee	17.15	30.70	49.71	53.26	132.05	WI Pub Service Corp
Midland	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Monroe	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Mount Clemens	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Mount Pleasant	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Muskegon	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Muskegon Hgts	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Niles[a]	15.27	25.02	33.61	42.20	88.16	Niles City of
Norton Shores	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Novi	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Oak Park	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Owosso	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Pontiac	15.95	31.90	43.47	65.84	154.16	Consumers Power Co.

TABLE XIX-19. TYPICAL ELECTRIC RATES FOR RESIDENTIAL SERVICES IN MICHIGAN CITIES OF 10,000 OR MORE INHABITANTS: 1 JANUARY 1984 (cont.)

Community	250 kwh	500 kwh	750 kwh	1000 kwh	2500 kwh	Utility
Port Huron	$15.95	$31.90	$43.47	$65.84	$154.16	Detroit Edison Co.
Portage	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Redford Twp.	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
River Rouge	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Riverview	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Romulus	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Roseville	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Royal Oak	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Saginaw	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Sault Ste Marie	15.21	27.03	38.84	50.66	121.55	Edison Sault Elec
Southfield	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Southgate	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
St. Clair Shrs	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Sterling Hgts	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Taylor	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Traverse City	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Traverse City[a]	18.83	35.65	52.48	69.30	170.25	Traverse City City of
Trenton	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Troy	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Walker	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Warren	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Wayne	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Westland	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Woodhaven	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.
Wyandotte[a]	18.54	35.44	52.30	69.19	170.47	Wyandotte City of
Wyoming	14.00	28.01	39.66	55.09	135.33	Consumers Power Co.
Ypsilanti	15.95	31.90	43.47	65.84	154.16	Detroit Edison Co.

SOURCE: U.S. Department of Energy, Energy Information Administration, Typical Electric Bills: January, 1984 (Washington, D.C.: 1984), Table 11.

a. Community served by publicly-owned utility.

TABLE XIX-20. INSTALLED ELECTRIC GENERATING CAPACITY OF ELECTRIC UTILITIES AND INDUSTRIAL PLANTS IN MICHIGAN, BY TYPE OF PRIME MOVER: 31 DECEMBER 1967-1984

(In thousands of kilowatts)

Year	Electric utilities		Combustion turbine/ internal combustion	Nuclear power*	Total
	Fossil steam	Hydro			
1967	8,930	356	1,057	n.a.	10,343
1968	9,766	356	1,050	n.a.	11,173
1969	10,480	351	1,032	n.a.	11,862
1970	10,830	348	994	n.a.	12,[illegible]71
1971	11,842	345	1,014	n.a.	13,201
1972	12,562	344	1,007	n.a.	13,913
1973	13,969	1,993[a]	1,023	n.a.	16,985
1974	16,605	2,322[a]	1,019	n.a.	19,946
1975	16,629	2,321[a]	1,009	n.a.	19,959
1976	13,281	2,321[a]	1,394	2,039	19,035
1977	13,867	2,322[a]	1,399	2,039	19,626
1978	14,104	2,322[a]	1,410	3,172	21,007
1979	14,994	2,322[a]	1,428	3,172	21,916
1980	15,764	2,322[a]	1,435	3,172	22,692
1981	15,700	2,322	1,452	3,172	22,647
1982	15,557	2,322	1,490	3,172	22,541
1983	15,670	2,322	1,463	3,172	22,628
1984	16,162	2,323	1,465	3,172	23,122

SOURCE: Bureau of the Census, Statistical Abstract of the United States, 1967 through 1975 (Washington, D.C.: annually); thereafter U.S. Department of Energy, Electrical Power Annual (Washington, D.C.: annually), Table 6.

[a] Includes the pump storage facility at Ludington where water is pumped up into a reservoir at night and released to generate electricity to meet peak loan requirements during the day.

* Data not available prior to 1976.

TABLE XIX-21. GENERATION OF ELECTRIC ENERGY BY ELECTRIC UTILITIES BY KIND OF FUEL: 1963-1984

(Thousands of kilowatt-hours)

Year	Coal-fired steam units	Petroleum-fired steam units[a]	Gas-fired steam units	Nuclear powered units	Hydroelectric powered units	All fuel units[b]
1963	33,171,041	224,283	187,504	122,351	1,246,431	34,951,610
1964	35,980,122	186,144	222,085	192,478	1,415,103	37,995,932
1965	39,472,433	194,419	262,017	180,607	1,667,243	41,776,719
1966	42,880,297	305,813	232,561	342,659	1,670,859	45,432,189
1967	44,495,793	460,034	375,330	502,013	1,799,231	47,632,901
1968	48,938,596	480,930	517,470	425,601	1,739,363	52,101,960
1969	51,346,646	603,897	1,200,274	401,050	1,732,982	55,284,849
1970	46,576,776	2,553,271	5,193,659	374,692	1,580,343	56,280,741
1971	47,187,538	4,277,233	5,607,036	387,520	1,620,622	59,079,949
1972	47,953,045	4,716,918	4,659,418	2,125,181	1,643,545	61,098,107
1973	48,752,756	6,326,295	3,767,128	2,979,877	889,714	62,715,770
1974	48,393,892	7,433,244	4,158,308	415,840	1,050,699	61,451,983
1975	48,180,133	8,336,771	3,475,317	7,176,123	989,369	68,157,713
1976	46,813,611	7,752,445	1,660,529	9,900,551	926,133	69,252,984
1977	47,624,077	7,635,801	715,910	10,231,444	804,363	68,757,517
1978	47,613,638	10,363,304	714,744	13,104,159	949,912	74,534,339
1979	51,363,534	8,110,368	1,203,678	15,139,195	1,184,940	78,229,558
1980	50,450,279	5,438,411	954,712	15,890,986	1,083,328	74,849,550
1981	53,182,672	3,028,311	648,083	17,066,081	1,123,665	75,594,999
1982	50,488,101	1,257,419	449,577	15,002,636	1,094,005	68,703,126
1983	52,016,000	639,000	618,000	16,383,000	1,113,000	70,911,000
1984	55,629,000	567,000	604,000	14,078,000	954,000	71,963,000

SOURCE: Federal Power Commission, special release; and U.S. Department of Energy, *Electric Power Annual*, (Washington, D.C.: annually), Table 12.

a. Includes distillate and residual and crude burned as residual, until 1975.
b. Includes generation of electricity by coal-fired steam units, petroleum-fired steam units, gas-fired steam units, nuclear-powered plants, fossil-fired steam units, petroleum combustion turbine/internal combustion units, gas combustion turbine/internal combustion units, combustion turbine/internal combustion units, and geothermal/wood/wind/waste units.

TABLE XIX-22. FOSSIL FUELS CONSUMED IN THE GENERATION OF ELECTRIC ENERGY BY ELECTRIC UTILITIES IN MICHIGAN, BY KIND OF FUEL: 1963-1984

Year	Coal-fired steam units[a]	Petroleum-fired steam units[b]	Gas-fired steam units[c]	Petroleum combustion turbine/ internal combustion units[d]	Gas combustion turbine/ internal combustion units[e]	All petroleum units[f]	All gas units[g]
1963	13,267,743	423,334	2,032,471				
1964	14,441,995	369,453	2,384,103				
1965	16,122,593	383,828	2,988,767				
1966	18,148,464	733,126	2,494,984				
1967	19,014,993	1,136,946	4,718,078				
1968	20,820,484	1,175,483	6,842,091				
1969	21,952,162	1,436,248	15,495,248				
1970	20,123,939	5,479,030	64,406,787				
1971	20,507,741	8,746,639	69,808,590				
1972	20,420,769	9,641,758	58,899,385				
1973	20,507,873	12,040,590	48,016,628				
1974	20,755,361	13,713,367	56,172,035				
1975	20,913,429	15,674,055	56,710,314				
1976	20,369,131	15,889,145	53,510,229				
1977	21,027,858	15,758,064	32,151,432				
1978	21,494,695	20,423,409	36,383,647				
1979	23,133,536	15,609,570	37,859,808	521,000	13,540,000	15,610,000	37,860,000
1980	22,150,263	10,400,333	26,368,103	275,000	11,674,000	10,400,000	26,368,000
1981	23,407,388	6,031,144	19,230,256	146,000	6,462,000	6,031,000	19,230,000
1982	21,805,840	2,437,485	7,978,506	87,000	4,748,000	2,524,000	12,727,000
1983	22,872,000	1,320,000	11,126,000	77,000	1,492,000	1,397,000	12,618,000
1984	24,491,000	1,242,000	8,416,000	83,000	1,295,000	1,325,000	9,711,000

SOURCE: Federal Power Commission, special release; and U.S. Department of Energy, Electric Power Annual, (Washington, D.C.: annually), Table 20.

a. Short tons.
b. Barrels of 42 gallons. Included distillate and residual and crude burned as residual.
c. Thousands of cubic feet.
d. Barrels of 42 gallons.
e. Thousands of cubic feet.
f. Measured in barrels.
g. Measured in thousand cubic feet.

TABLE XIX-23. SALES OF ELECTRIC ENERGY TO INDUSTRIAL CONSUMERS IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1976-1985

(Millions of kilowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1976	2,498	2,641	2,750	2,784	2,748	2,881	2,847	2,827	2,883	2,768	2,827	2,745
1977	2,622	2,760	2,846	2,814	2,956	3,002	2,869	3,020	3,002	2,761	2,930	2,761
1978	2,756	2,754	2,773	2,966	2,970	3,063	2,971	3,094	3,118	3,190	3,055	2,899
1979	3,031	2,995	3,162	2,903	3,073	3,115	2,987	2,900	2,880	2,868	2,712	2,516
1980	2,544	2,693	2,713	2,605	2,277	2,242	2,414	2,520	2,598	2,762	2,645	2,643
1981	2,355	2,621	2,704	2,644	2,648	2,800	2,729	2,721	2,576	2,493	2,444	2,131
1982	2,104	2,170	2,445	2,348	2,415	2,468	2,490	2,446	2,333	2,251	2,099	2,031
1983	2,029	2,344	2,500	2,384	2,485	2,605	2,624	2,611	2,688	2,648	2,700	2,487
1984	2,477	2,713	2,767	2,693	2,745	2,754	2,886	2,869	2,709	2,790	2,594	2,540
1985	2,573	2,675	2,661	2,690	2,884	2,831	2,788	2,985	2,972	2,885	2,666	2,643
						United States						
1976	57,463	58,228	60,516	59,967	61,271	62,920	62,657	64,184	64,653	64,208	63,106	62,842
1977	61,481	60,439	63,294	63,278	65,418	66,064	64,622	66,300	66,362	66,295	64,833	63,906
1978	64,300	60,817	61,524	63,129	66,746	69,098	67,397	69,402	70,067	71,259	69,702	67,767
1979	67,956	66,847	68,770	68,777	70,421	70,968	69,938	71,058	70,075	71,444	69,787	67,283
1980	67,532	68,508	69,058	67,908	67,325	66,739	65,531	67,377	69,570	69,413	67,613	68,517
1981	67,076	67,411	68,590	68,138	68,714	71,641	71,712	72,010	71,011	69,154	66,139	64,130
1982	62,939	62,778	64,496	62,723	62,480	63,684	62,617	63,306	59,980	60,830	60,651	58,464
1983	57,938	59,032	60,261	60,548	62,729	66,152	66,424	69,611	69,618	68,924	67,544	67,217
1984	66,743	67,445	69,687	69,049	70,774	73,014	71,843	74,354	71,275	70,945	68,688	66,607
1985	67,219	66,582	67,437	68,445	70,140	70,091	69,761	72,789	71,402	69,158	67,159	66,383

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly). After October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XIX-24. SALES OF ELECTRIC ENERGY TO RESIDENTIAL CONSUMERS IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1976-1985

(Millions of kilowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1976	2,225	1,801	1,827	1,612	1,578	1,636	1,767	1,792	1,666	1,618	1,700	2,100
1977	2,329	1,886	1,856	1,631	1,574	1,632	1,814	1,905	1,721	1,240	1,630	2,058
1978	2,296	1,874	1,908	1,708	1,602	1,657	1,740	1,828	1,821	1,758	1,702	1,964
1979	2,326	1,932	1,924	1,710	1,644	1,644	1,769	1,883	1,735	1,624	1,726	1,969
1980	2,239	1,847	1,946	1,782	1,609	1,596	1,858	2,030	1,940	1,726	1,745	2,008
1981	2,350	1,762	1,815	1,630	1,596	1,594	1,925	1,967	1,728	1,651	1,634	1,978
1982	2,308	1,879	1,813	1,709	1,510	1,563	1,829	1,836	1,647	1,592	1,635	1,956
1983	2,165	1,689	1,725	1,716	1,563	1,634	1,948	2,155	1,869	1,678	1,672	2,082
1984	2,321	1,820	1,834	1,673	1,606	1,651	1,848	1,973	1,775	1,646	1,726	2,009
1985	2,289	1,874	1,845	1,687	1,538	1,610	1,810	1,817	1,854	1,697	1,735	2,105
						United States						
1976	60,126	54,264	47,060	43,563	41,036	44,157	53,671	57,255	53,460	44,762	46,675	56,750
1977	65,332	61,424	50,859	44,414	41,568	48,419	60,969	62,821	57,248	48,741	44,959	54,919
1978	65,547	63,936	58,194	46,928	43,637	50,511	61,327	63,434	61,584	51,108	47,220	57,058
1979	69,912	67,470	58,806	49,647	45,378	49,109	58,064	64,168	59,251	49,430	49,480	58,437
1980	65,841	64,514	60,497	51,749	45,699	52,267	68,611	74,893	67,969	54,014	50,539	60,775
1981	74,087	66,359	57,660	50,914	48,348	56,165	68,990	70,299	60,173	51,989	50,754	60,826
1982	76,264	69,128	60,498	54,918	49,092	54,083	65,704	69,906	63,053	52,638	52,136	62,102
1983	69,967	65,039	58,912	56,284	49,669	54,138	69,965	78,374	73,197	55,374	53,704	66,326
1984	83,300	69,776	63,719	56,373	53,519	59,933	71,020	73,138	67,456	55,965	56,543	66,915
1985	77,242	78,011	63,981	56,025	52,842	60,652	71,027	73,311	71,064	57,515	56,794	72,192

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly); and after October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XIX-25. SALES OF ELECTRIC ENERGY TO COMMERCIAL CONSUMERS IN MICHIGAN AND THE UNITED STATES, BY MONTH: 1976-1985

(Millions of killowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1976	1,208	1,079	1,105	1,046	1,076	1,130	1,264	1,210	1,207	1,113	1,086	1,252
1977	1,313	1,124	1,167	1,087	1,142	1,203	1,282	1,303	1,188	743	1,101	1,248
1978	1,300	1,147	1,176	1,098	1,084	1,217	1,249	1,338	1,290	1,215	1,138	1,243
1979	1,370	1,206	1,269	1,165	1,179	1,253	1,293	1,352	1,223	1,227	1,178	1,271
1980	1,343	1,214	1,282	1,213	1,159	1,202	1,324	1,425	1,293	1,237	1,184	1,282
1981	1,346	1,125	1,212	1,118	1,123	1,205	1,384	1,378	1,290	1,161	1,153	1,282
1982	1,308	1,170	1,202	1,139	1,121	1,182	1,291	1,315	1,203	1,159	1,121	1,232
1983	1,295	1,110	1,198	1,134	1,115	1,210	1,413	1,480	1,323	1,233	1,158	1,309
1984	1,372	1,231	1,261	1,188	1,201	1,282	1,411	1,509	1,341	1,281	1,228	1,327
1985	1,404	1,254	1,316	1,232	1,307	1,324	1,460	1,464	1,432	1,328	1,284	1,410
						United States						
1976	34,955	33,583	32,273	31,813	32,347	35,130	39,026	39,517	38,503	34,388	33,372	35,579
1977	37,598	36,105	34,249	33,180	34,291	37,698	41,863	42,483	41,062	36,655	34,075	35,714
1978	37,942	37,286	36,201	33,484	33,896	38,624	42,839	43,694	42,935	38,354	35,864	37,650
1979	40,200	39,670	37,938	35,731	36,259	39,174	42,528	43,915	42,416	38,750	36,656	37,952
1980	39,578	39,528	38,762	36,453	36,110	40,129	45,525	47,679	46,028	40,479	37,954	39,846
1981	43,229	41,345	39,541	37,910	39,331	44,244	48,989	49,003	45,877	42,183	38,746	40,782
1982	44,947	43,459	41,710	40,036	40,021	44,206	48,211	49,720	48,068	60,830	40,572	42,584
1983	44,019	42,475	41,518	40,679	40,305	45,086	51,013	53,245	52,147	45,517	42,666	45,119
1984	49,216	45,840	45,251	43,052	44,150	49,410	53,922	53,603	52,854	48,061	45,937	46,485
1985	49,634	49,406	46,629	45,826	47,711	51,521	56,109	55,544	55,960	50,201	47,843	51,289

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly). After October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XIX-27. NUMBER OF NATURAL GAS DISTRIBUTION UTILITY CUSTOMERS IN MICHIGAN, BY CLASS OF SERVICE: 1969-1983

(In thousands)

Year	Residential	Commercial	Industrial	Other	Total
1969	1,810.3	153.7	9.9	(L)	1,973.9
1970	1,850.9	157.2	10.4	(L)	2,018.5
1971	1,907.0	161.5	10.0	(L)	2,079.2
1972	1,946.7	168.7	10.6	(L)	2,126.0
1973	1,984.4	174.6	10.9	(L)	2,169.9
1974	2,023.3	178.1	10.8	(L)	2,212.2
1975	2,048.7	175.4	10.4	(L)	2,234.5
1976	2,069.7	165.3	9.4	(L)	2,244.4
1977	2,100.7	159.3	9.0	(L)	2,269.1
1978	2,145.1	159.4	9.2	(L)	2,313.6
1979	2,206.3	158.0	9.4	(L)	2,373.7
1980	2,270.2	163.5	9.6	(L)	2,443.3
1981	2,311.2	163.5	9.7	(L)	2,484.4
1982	2,323.7	163.1	9.9	(L)	2,496.7
1983	2,329.9	163.9	9.8	0	2,503.7

SOURCE: American Gas Association, Gas Facts, (Arlington, Va.: annually).

(L): Less than 50 customers.

TABLE XIX-28. TOTAL GAS REVENUES OF NATURAL GAS DISTRIBUTION UTILITIES IN MICHIGAN, BY CLASS OF SERVICE: 1969-1983

(In millions of dollars)

Year	Residential	Commercial	Industrial	Other	Total
1969	328	104	156	3	591
1970	350	115	178	8	651
1971	362	129	205	7	703
1972	404	158	231	6	799
1973	394	169	245	5	813
1974	480	228	327	8	1,044
1975	550	303	404	12	1,269
1976	690	401	519	2	1,612
1977	784	423	530	8	1,746
1978	869	448	633	(L)	1,950
1979	1,023	488	725	(L)	2,236
1980	1,237	600	765	1	2,603
1981	1,391	662	869	(L)	2,921
1982	1,606	752	1,790	(L)	3,149
1983	1,873	859	905	(L)	3,637

SOURCE: American Gas Association, Gas Facts, (Arlington, Va.: annually).

(L): Less than $500,000.

XX. WHOLESALE TRADE

The first postwar business census covered the year 1948, and subsequent censuses have been taken twice each decade. The current law authorizes the U.S. Bureau of the Census to canvass the nation's industrial and business establishments at five-year intervals in years ending in 2 and 7. These economic censuses cover construction industries, manufacturing, mining, retail trade, selected services, selected transportation, and wholesale trade.

Each establishment is classified on the basis of its major economic activity: selling merchandise to retailers; to industrial, commercial, institutional, farm or professional users; and to other wholesalers; or acting as agents or brokers in buying merchandise for or selling merchandise to persons or companies classified as wholesalers. Also included are wholesale liquor establishments operated by state or local governments. The basic tabulations in this chapter do not include data for central administrative offices, captive warehouses, and other units that service or are auxiliary to wholesale establishments within the same organization.

The 1982 Census of Wholesale Trade covers all such establishments that have a payroll. Firms with payrolls were sent questionnaires for each establishment operated.

Sales reported in the census of Wholesale Trade do not include wholesale sales incidental to other kinds of business, such as retailing or services. They do include total receipts, including accruals, of wholesale establishments even though some of these receipts were from servicing merchandise, carrying charges, delivering merchandise, retailing to households, and so forth. Refunds and allowances for merchandise returned are deducted. Sales and excise taxes are included, but nonoperating income (rental of real estate, interest or dividends on investments, and so forth) is not. Sales figures include sales so defined of all establishments in business at any time during the year, whereas the number of establishments in the Census of Retail Trade excludes those that have gone out of business during the year.

Payroll is as defined by the Internal Revenue Service. It includes wages and salaries, gratuities reported to the employer, commissions, bonuses, vacation and sick leave pay before deducting employee income taxes, Social Security taxes, union dues, and so forth.

Employment for the pay period including 12 March 1982 consists of paid employees of corporations and unincorporated businesses, including salaried officers and executives of corporations, but excluding proprietors and partners of unincorporated business. Employees on paid sick leave or holiday or on paid vacation also are included.

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TABLE XX-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF SALES WORKERS IN MICHIGAN AND THE UNITED STATES WHOLESALE TRADE ESTABLISHMENTS: 1956-1985

	Michigan				United States			
	Employment	Weekly[a]		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings[a]	(000)	Hours	Earnings	earnings
1956	103.5	40.3	85.72	2.13	3,018	40.5	78.57	1.94
1957	101.9	40.6	88.18	2.17	3,028	40.3	81.41	2.02
1958	103.2	40.9	87.57	2.14	2,980	40.2	84.02	2.09
1959	99.9	40.5	97.16	2.40	3,082	40.6	88.51	2.18
1960	102.9	40.4	99.59	2.47	3,143	40.5	90.72	2.24
1961	101.7	40.7	102.56	2.52	3,133	40.5	93.56	2.31
1962	104.7	40.8	104.33	2.56	3,198	40.6	96.22	2.37
1963	105.9	41.7	109.34	2.62	3,248	40.6	99.47	2.45
1964	111.3	43.3	118.70	2.74	3,337	40.7	102.56	2.52
1965	119.8	43.3	127.43	2.94	3,466	40.8	106.49	2.61
1966	127.9	43.7	136.56	3.13	3,597	40.7	111.11	2.73
1967	133.1	45.8	147.29	3.22	3,689	40.3	116.06	2.88
1968	135.8	41.0	133.91	3.27	3,779	40.1	122.31	3.05
1969	137.4	40.6	155.01	3.82	3,907	40.2	129.85	3.23
1970	144.8	40.2	165.06	4.11	3,993	39.9	137.26	3.44
1971	144.8	39.7	173.73	4.38	4,001	39.5	144.18	3.65
1972	146.0	39.7	184.18	4.63	4,113	39.4	151.69	3.85
1973	150.6	40.1	197.13	4.92	4,277	39.3	160.34	4.08
1974	153.5	39.8	211.48	5.31	4,433	38.8	170.33	4.39
1975	146.9	41.2	253.63	6.16	4,415	38.7	183.05	4.73
1976	148.9	39.2	244.81	6.25	4,546	38.7	194.66	5.03
1977	151.8	39.1	257.53	6.59	4,708	38.8	209.13	5.39
1978	164.2	39.6	292.89	7.40	4,969	38.8	228.14	5.88
1979	170.4	38.6	304.40	7.89	5,204	38.8	247.93	6.39
1980	161.5	38.8	323.94	8.35	5,275	38.5	267.96	6.96
1981	157.9	39.1	358.99	9.19	5,358	38.5	291.06	7.56
1982	150.7	39.0	381.18	9.78	5,278	38.3	309.85	8.09
1983	154.6	38.5	385.20	10.00	5,268	38.5	329.18	8.55
1984	166.3	39.5	419.49	10.62	5,555	38.5	342.27	8.89
1985	174.9	39.6	433.62	10.95	5,740	38.4	351.74	9.16

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings, (Washington, D.C.: monthly), March 1986, Table B-1 and C-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1986).

TABLE XX-2. SUMMARY STATISTICS FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES: 1947, 1954, 1958, 1963, 1967, 1972, 1977 AND 1982

	Establishments with payroll							
	Number[a] (000)		Sales ($1,000,000)		Annual payroll ($1,000,000)		Paid employees[b] (000)	
Year	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.
1947[c]	8,485	243,366	6,721	188,689	319	7,991	88,725	2,382,789
1947	7,600	216,099	n.a.	n.a.	298	7,734	83,138	2,305,403
1954	9,441	250,322	10,087	233,976	479	10,868	99,793	2,590,361
1958	10,797	285,996	11,600	284,971	547	13,199	105,273	2,797,341
1963	11,635	308,177	14,055	358,386	711	18,101	113,845	3,088,706
1967	11,436	311,464	18,800	459,476	976	23,922	131,751	3,518,969
1972[d]	12,208	348,168	26,238	683,659	1,369	35,887	133,359	3,878,181
1972[e]	12,827	369,791	26,546	695,224	1,397	36,893	137,037	4,026,118
1977[e]	12,572	382,837	45,152	1,258,400	2,109	58,290	141,484	4,397,089
1982	12,999	418,000	59,806	1,972,600	3,041	94,700	146,482	4,962,000

SOURCE: Bureau of the Census, *1982 Census of Wholesale Trade, Geographic Area Series, Michigan* (Washington, D.C.: 1985), WC82-A-23, Table 1; and similar documents for other years.

a. Excludes establishments with no paid employment.

b. Week including 15 November for 1947-1963; week including 12 March for 1967 and 1972.

c. Unrevised statistics. Based upon reports from establishments with sales volume of $5,000 or over.

d. Based on 1967 Standard Industrial Classification.

e. Based on 1972 Standard Industrial Classification.

TABLE XIX-26. SALES OF ELECTRIC ENERGY TO ALL CONSUMERS IN MICHIGAN AND THE UNITED STATES BY MONTH: 1976-1985

(Millions of kilowatt-hours)

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
						Michigan						
1976	6,072	5,643	5,799	5,563	5,509	5,761	5,993	5,954	5,881	5,614	5,733	6,227
1977	6,400	5,892	5,992	5,647	5,780	5,955	6,089	6,352	6,040	4,799	5,791	6,224
1978	6,492	5,903	5,983	5,892	5,771	6,052	6,084	6,393	6,364	6,293	6,024	6,252
1979	6,878	6,266	6,490	5,904	6,019	6,156	6,181	6,267	5,974	5,856	5,752	5,898
1980	6,278	5,886	6,079	5,737	5,165	5,156	5,719	6,105	5,900	5,860	5,714	6,082
1981	6,256	5,689	5,921	5,575	5,536	5,774	6,169	6,234	5,736	5,498	5,369	5,536
1982	5,927	5,415	5,656	5,389	5,223	5,392	5,800	5,793	5,379	5,195	5,046	5,420
1983	5,683	5,319	5,607	5,400	5,327	5,615	6,221	6,478	6,082	5,746	5,721	6,076
1984	6,373	5,946	6,044	5,723	5,715	5,852	6,328	6,559	6,009	5,903	5,738	6,076
1985	6,469	5,986	6,009	5,790	5,902	5,940	6,235	6,453	6,446	6,095	5,870	6,360
						United States						
1976	158,903	151,949	145,839	140,728	140,123	147,550	161,224	166,792	162,750	148,778	148,758	160,798
1977	170,685	163,738	154,560	146,297	146,890	157,741	173,384	176,896	170,619	157,673	149,754	160,606
1978	174,372	168,291	161,950	148,883	149,914	163,981	177,607	182,666	181,015	166,722	159,125	168,709
1979	184,757	180,719	171,515	159,743	157,688	165,256	176,495	185,519	178,220	165,721	162,096	169,815
1980	179,585	178,720	174,373	161,703	154,851	164,872	185,882	196,205	190,139	170,080	162,174	175,607
1981	91,949	182,207	172,826	163,525	163,173	178,827	197,814	198,459	183,620	171,350	162,129	172,375
1982	192,079	182,805	173,959	164,512	158,569	168,739	183,567	189,740	178,296	163,416	160,479	170,278
1983	179,176	173,465	167,584	163,807	158,919	171,604	194,153	208,115	201,922	176,307	170,474	185,428
1984	206,548	188,857	185,563	174,927	175,003	189,071	203,791	208,364	198,365	181,702	178,008	186,917
1985	201,364	201,045	184,922	177,345	177,596	189,112	204,034	208,922	205,650	183,757	179,061	196,392

SOURCE: Energy Information Administration, U.S. Department of Energy, Energy Data Report (Washington, D.C.: monthly). After October 1981, Electric Power Monthly (Washington, D.C.: monthly).

TABLE XX-3. GENERAL STATISTICS FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY TYPE OF OPERATION: 1977 AND 1982.

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Merchant wholesalers						
Wholesale merch. & dist.	1977	9,366	17,537,764	1,427,456	332,317	102,091
	1982	10,159	27,600,625	2,121,069	519,573	111,358
Grain elevators (terminals, and country)	1977	148	475,527	17,628	3,785	1,452
	1982	133	533,704	18,660	4,042	1,111
Importers	1977	157	650,879	28,817	6,939	1,951
	1982	246	1,369,099	84,971	21,862	3,943
Exporters	1977	29	95,387	2,449	518	179
	1982	48	234,346	5,292	1,124	270
TOTAL	1977	9,813	19,279,693	1,490,858	347,208	107,214
	1982	10,159	27,600,625	2,121,069	519,573	111,358
Manufacturers' sales branches and offices						
Mfg. sales branches, with stock	1977	772	7,822,860	340,886	81,072	19,616
	1982	686	11,028,582	484,222	118,899	18,501
Mfg. sales offices, without stock	1977	561	12,607,442	142,927	35,379	7,042
	1982	628	14,146,681	254,195	65,878	9,277
TOTAL	1977	1,333	20,430,302	483,813	116,451	29,658
	1982	1,314	25,175,263	738,417	184,777	27,778
Merchandise agents and brokers						
Merchandise brokers for buyers or sellers	1977	129	795,116	15,655	3,826	1,038
	1982	237	1,608,400	31,055	7,852	1,538
Commission merchants	1977	208	605,759	15,596	3,486	978
	1982	296	1,711,681	45,636	11,159	1,620
Manufacturers' agents	1977	1,039	3,680,751	99,519	23,212	4,916
	1982	913	2,919,242	93,558	24,543	3,342
Other agents & brokers	1977	50	359,898	3,479	787	680
	1982	80	790,569	11,581	2,381	846
TOTAL	1977	1,426	5,441,524	134,249	31,311	7,612
	1982	1,526	7,029,892	181,830	45,935	7,346
GRAND TOTAL	1977	12,572	45,151,519	2,106,920	494,970	141,484
	1982	12,999	59,805,780	3,041,316	750,285	146,482

SOURCE: Bureau of the Census, U.S. Census of Wholesale Trade, 1982, Area Series, Michigan (Washington, D.C.: 1985), WC82-A-23, Table 1; and a similar document for 1977.

a. Excludes establishments with no paid employment.

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
			Durable goods			
Motor vehicles and automotive parts and supplies	1977	1,523	8,998,004	269,239	64,253	17,798
	1982	1,514	11,424,173	355,362	86,922	16,395
Automobiles & other motor vehicles	1977	220	5,268,222	60,091	14,567	2,569
	1982	213	6,810,116	77,256	19,101	3,269
Automotive parts & supplies	1977	1,197	3,570,220	195,138	46,752	13,356
	1982	1,220	4,306,433	264,994	64,648	12,437
Tires and tubes	1977	106	159,562	14,010	2,934	873
	1983	81	307,624	13,112	3,173	689
Furniture & home furnishings	1977	328	709,908	42,862	9,838	3,062
	1982	293	796,161	57,907	14,264	3,047
Furniture	1977	159	206,3[illegible]	16,301	3,838	1,207
	1982	147	284,659	25,270	6,199	1,210
Home furnishings	1977	169	503,583	26,561	5,499	1,855
	1982	146	511,502	32,637	8,065	1,837
Lumber & other construction materials	1977	594	1,539,060	87,570	19,254	5,403
	1982	599	1,453,802	101,335	23,355	4,815
Lumber, plywood, & millwork	1977	249	783,185	43,513	9,939	2,758
	1982	229	763,661	47,303	10,908	2,160
Construction materials, N.E.C.	1977	345	755,875	44,057	9,315	2,645
	1982	370	690,141	54,032	12,447	2,655
Sporting, recreational, photographic, & hobby goods, toys & supplies	1977	212	426,087	32,166	7,513	2,290
	1982	213	555,637	34,984	8,663	1,900
Sporting & recreational goods and supplies	1977	117	260,075	17,800	4,052	1,300
	1982	121	280,328	15,472	3,687	907

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
			Durable goods (cont.)			
Hobby goods, toys, & supplies	1977	55	103,750	7,205	1,747	550
	1982	51	133,057	7,069	1,656	452
Photographic equip. & supplies	1977	40	62,254	7,161	1,714	440
	1982	41	142,252	12,443	3,320	541
Metals & minerals except petroleum	1977	515	6,463,559	132,170	30,195	7,456
	1982	501	6,061,797	196,802	50,192	7,411
Metals service centers and offices	1977	487	6,105,989	127,864	29,297	7,253
	1982	481	5,836,519	193,450	49,380	7,294
Coal & other minerals & ores	1977	28	357,570	4,306	898	205
	1982	20	225,278	3,344	812	117
Electrical goods	1977	763	2,252,456	124,987	29,775	8,458
	1982	778	2,750,237	184,806	46,006	8,521
Electrical apparatus & equipment	1977	439	1,177,600	70,288	16,894	4,597
	1982	455	1,513,503	116,964	29,739	5,190
Electrical appliances, TV and radio sets	1977	99	680,878	29,249	6,853	2,028
	1982	101	764,768	33,470	7,654	1,504
Electronic parts & equipment	1977	225	393,978	25,450	6,028	1,833
	1982	222	471,966	34,372	8,613	1,827
Hardware, plumbing, heating equipment, supplies	1977	686	1,101,409	93,127	22,436	6,375
	1982	738	1,299,066	124,309	33,317	6,463
Hardware	1977	207	375,782	31,126	7,618	2,277
	1982	234	455,272	45,298	12,324	2,426
Plumbing, heating equipment & supplies (hydronics)	1977	286	422,440	35,518	8,676	2,430
	1982	308	512,087	45,733	12,012	2,411

TABLE XX-5. SELECTED DATA FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982

County	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Paid employees 12 March
Alcona	1977	4	(D)	(D)	(D)
	1982	5	(D)	(D)	(D)
Alger	1977	10	(D)	(D)	(D)
	1982	9	21,821	522	34
Allegan	1977	104	118,281	7,173	654
	1982	103	203,687	14,232	832
Alpena	1977	55	70,313	5,416	447
	1982	60	116,001	7,309	528
Antrim	1977	17	13,517	1,045	125
	1982	17	21,748	1,118	98
Arenac	1977	23	27,418	1,236	110
	1982	16	57,467	1,458	98
Baraga	1977	8	2,952	150	19
	1982	8	4,809	290	24
Barry	1977	36	50,315	1,966	168
	1982	36	37,552	2,736	207
Bay	1977	158	732,166	25,738	1,898
	1982	139	632,922	31,521	1,716
Benzie	1977	9	6,580	302	23
	1982	6	9,544	357	21
Berrien	1977	199	299,399	19,798	1,565
	1982	230	831,537	41,598	2,265
Branch	1977	58	157,551	6,755	576
	1982	58	230,273	8,085	481
Calhoun	1977	170	350,388	18,756	1,504
	1982	161	389,660	22,903	1,480
Cass	1977	32	66,427	2,568	247
	1982	36	98,934	3,584	231
Charlevoix	1977	16	9,967	831	87
	1982	18	21,153	1,248	77
Cheboygan	1977	30	45,120	1,489	138
	1982	27	74,989	1,835	115
Chippewa	1977	47	98,112	3,142	266
	1982	47	49,594	3,055	254
Clare	1977	19	23,961	1,403	174
	1982	21	34,368	2,487	183
Clinton	1977	66	107,188	7,527	678
	1982	75	398,772	14,833	893
Crawford	1977	13	6,955	577	58
	1982	12	23,740	1,090	64
Delta	1977	65	100,189	4,916	461
	1982	61	135,062	7,331	475
Dickinson	1977	66	147,411	8,674	708
	1982	64	155,753	10,373	620
Eaton	1977	71	196,928	19,931	1,233
	1982	78	440,161	28,606	1,232
Emmet	1977	50	44,688	4,248	357
	1982	42	60,326	6,374	368
Genesee	1977	394	1,199,319	64,912	4,355
	1982	408	1,572,531	93,020	4,627
Gladwin	1977	13	9,881	451	49
	1982	15	11,333	347	33
Gogebic	1977	28	24,140	1,718	176
	1982	25	30,756	1,940	148
Grand Traverse	1977	104	168,122	12,140	926
	1982	148	304,133	19,671	1,177
Gratiot	1977	61	130,630	6,015	554
	1982	56	137,629	5,945	450

TABLE XX-5. SELECTED DATA FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Paid employees 12 March
Hillsdale	1977	57	103,350	5,060	501
	1982	51	203,285	7,261	583
Houghton	1977	35	25,116	1,866	204
	1982	30	39,851	2,451	159
Huron	1977	68	110,848	6,656	554
	1982	64	174,888	9,709	528
Ingham	1977	377	1,172,055	75,382	5,080
	1982	367	1,198,466	103,846	5,147
Ionia	1977	52	46,395	3,053	302
	1982	43	95,770	3,967	300
Iosco	1977	27	15,741	1,216	113
	1982	23	29,110	1,563	162
Iron	1977	17	17,697	1,668	159
	1982	11	11,586	1,118	83
Isabella	1977	65	197,248	8,325	611
	1982	70	538,226	13,790	764
Jackson	1977	191	449,428	23,309	1,810
	1982	172	584,857	32,613	1,777
Kalamazoo	1977	340	676,551	51,282	3,726
	1982	356	1,209,402	86,274	4,342
Kalkaska	1977	14	14,320	1,142	88
	1982	21	21,253	1,961	106
Kent	1977	998	3,403,035	202,084	14,125
	1982	1,087	5,047,236	311,283	15,099
Keweenaw	1977	1	(D)	(D)	(D)
	1982	1	(D)	(D)	(D)
Lake	1977	1	(D)	(D)	(D)
	1982	5	3,576	242	21
Lapeer	1977	45	50,377	3,211	325
	1982	52	120,245	6,866	518
Leelanau	1977	12	8,860	528	50
	1982	9	13,304	500	50
Lenawee	1977	120	181,657	13,461	1,088
	1982	116	262,018	13,915	838
Livingston	1977	76	60,672	6,138	456
	1982	107	154,435	13,262	768
Luce	1977	8	(D)	(D)	(D)
	1982	11	7,394	662	55
Mackinac	1977	14	6,833	463	51
	1982	18	15,201	768	61
Macomb	1977	626	1,363,960	109,103	7,508
	1982	707	1,743,319	162,831	8,000
Manistee	1977	25	32,549	2,052	182
	1982	23	73,688	3,533	260
Marquette	1977	89	123,584	9,690	831
	1982	78	105,851	10,077	659
Mason	1977	29	23,314	1,926	214
	1982	33	47,655	3,162	203
Mecosta	1977	26	17,907	1,274	124
	1982	27	35,105	2,247	186
Menominee	1977	41	73,238	4,054	343
	1982	39	111,073	6,231	360
Midland	1977	48	50,371	4,202	349
	1982	44	42,812	4,876	301
Missaukee	1977	10	8,480	541	48
	1982	13	13,731	911	63
Monroe	1977	94	159,154	9,124	708
	1982	92	279,339	21,468	1,004

TABLE XX-5. SELECTED DATA FOR WHOLESALE TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Paid employees 12 March
Montcalm	1977	65	174,765	6,280	545
	1982	65	207,950	8,450	543
Montmorency	1977	10	3,629	209	27
	1982	6	2,999	230	25
Muskegon	1977	177	(D)	(D)	(D)
	1982	163	698,059	30,313	1,741
Newaygo	1977	24	23,565	1,797	217
	1982	41	48,762	2,997	242
Oakland	1977	2,591	17,173,217	507,058	28,733
	1982	2,869	21,078,632	815,115	32,783
Oceana	1977	17	(D)	(D)	(D)
	1982	12	15,289	897	54
Ogemaw	1977	22	11,555	829	86
	1982	21	58,120	2,038	151
Ontonagon	1977	6	2,600	219	25
	1982	5	4,522	284	27
Osceola	1977	17	23,349	903	103
	1982	15	22,083	927	75
Oscoda	1977	8	1,768	160	20
	1982	2	(D)	(D)	(D)
Otsego	1977	34	43,474	2,394	203
	1982	35	92,246	4,691	277
Ottawa	1977	199	366,065	19,962	1,712
	1982	233	591,144	34,891	1,988
Presque Isle	1977	15	7,545	425	67
	1982	10	9,032	602	76
Roscommon	1977	17	5,050	573	47
	1982	18	7,603	648	51
Saginaw	1977	322	764,766	52,505	3,772
	1982	327	1,247,854	72,473	3,699
St. Clair	1977	124	173,690	12,598	1,063
	1982	140	266,862	19,289	1,205
St. Joseph	1977	63	143,987	5,320	452
	1982	65	146,554	10,675	655
Sanilac	1977	70	71,210	4,982	466
	1982	65	95,394	6,261	426
Schoolcraft	1977	11	8,702	768	76
	1982	10	9,665	609	43
Shiawassee	1977	88	113,376	6,493	580
	1982	79	164,838	8,026	525
Tuscola	1977	83	232,504	9,836	812
	1982	67	205,433	7,109	475
Van Buren	1977	75	78,038	5,388	453
	1982	73	117,541	7,843	608
Washtenaw	1977	257	371,247	28,263	2,145
	1982	304	700,394	45,016	2,686
Wayne	1977	2,802	12,271,694	637,471	40,481
	1982	2,674	15,651,569	793,451	36,641
Wexford	1977	44	48,854	3,902	306
	1982	41	71,602	6,2[illegible]	343
TOTAL	1977	12,572	45,151,519	2,108,920	141,484
	1982	12,999	59,805,780	3,041,316	146,482

SOURCE: Bureau of the Census, U.S. Census of Wholesale Trade, 1982, Area Series, Michigan (Washington, D.C.: 1985), WC82-A-23, Table 8; and similar document for 1977.

a. Excludes establishments with no paid employment.
(D). Data withheld to avoid disclosing figures for individual companies.

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
			Durable goods (cont.)			
Warm air heating & air conditioning equipment & supplies	1977	153	263,237	21,229	4,830	1,340
	1982	129	(D)	(D)	(D)	(D)
Refrigeration equipment & supplies	1977	40	39,950	5,254	1,312	328
	1982	34	(D)	(D)	(D)	(D)
Machinery equipment & supplies	1977	3,082	6,270,130	566,178	134,266	35,168
	1982	2,752	4,155,763	517,718	129,918	27,073
Commercial machines & equipment	1977	466	945,647	154,416	37,084	8,810
	1982	500	792,773	90,198	21,712	4,752
Construction & mining machinery & equipment	1977	151	347,968	36,098	8,700	2,178
	1982	101	199,030	27,597	6,904	1,288
Farm & garden machinery & equipment	1977	454	579,517	43,419	10,328	3,655
	1982	408	(D)	(D)	(D)	(D)
Industrial machinery & equipment	1977	879	2,106,440	154,040	36,030	8,562
	1982	731	1,120,062	145,468	37,802	6,879
Industrial supplies	1977	566	1,654,862	104,387	24,772	6,462
	1982	454	700,104	89,886	23,635	4,649
Professional equipment & supplies	1977	304	430,648	48,211	11,492	3,419
	1982	294	602,940	72,040	17,339	3,864
Service estab. equip. & supp.	1977	228	148,049	21,674	4,993	1,780
	1982	228	169,103	29,801	7,064	1,774
Trans. equip. & supplies except motor vehicles	1977	34	56,999	3,933	867	302
	1982	36	(D)	(D)	(D)	(D)
Misc. durable goods	1977	573	1,090,360	83,747	17,857	6,187
	1982	506	750,746	77,269	19,214	4,629

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Durable goods (cont.)						
Scrap & waste materials	1977	344	656,261	53,682	12,442	4,160
	1982	312	555,807	60,677	15,664	3,498
Jewelry, watches, diamonds,	1977	65	70,170	6,649	1,396	544
& other precious stones	1982	76	126,625	7,131	1,454	541
Durable goods, N.E.C.	1977	164	263,929	23,416	4,019	1,485
	1982	226	485,961	22,855	5,537	1,255
TOTAL DURABLE GOODS	1977	8,276	28,850,973	1,432,046	335,367	92,199
	1982	8,734	33,855,402	1,978,825	494,499	92,607
Nondurable goods						
Paper & paper products	1977	379	757,167	62,460	14,714	4,338
	1982	318	771,636	80,838	19,348	4,219
Printing & writing paper	1977	39	294,955	19,576	4,529	1,132
	1982	46	330,934	24,094	5,935	943
Stationery supplies	1977	240	191,872	25,993	6,031	2,033
	1982	182	188,700	31,417	7,418	2,061
Industrial & personal service	1977	100	270,340	17,391	4,154	1,173
paper	1982	90	252,002	25,327	5,995	1,215
Drugs, drug proprietaries, druggists' sundries	1977	94	455,458	20,818	4,950	1,676
	1982	86	695,773	33,860	7,822	1,823
Apparel, piece goods, and notions	1977	146	273,729	18,053	4,469	1,306
	1982	105	166,249	14,079	3,341	772
Piece goods	1977	42	108,027	5,138	1,222	304
	1982	33	61,170	5,176	1,142	237

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982(cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
			Nondurable goods (cont.)			
Notions & other dry goods	1977	15	15,321	1,022	284	113
	1982	14	(D)	(D)	(D)	(D)
Men's & boys' clothing and furnishings	1977	40	55,873	3,027	706	247
	1982	34	60,096	5,130	1,325	278
Women's, children's, & infants clothing & accessories	1977	36	52,293	5,349	1,389	399
	1982	17	(D)	(D)	(D)	(D)
Footwear	1977	13	42,215	3,337	868	243
	1982	7	22,009	1,863	418	116
Groceries & related products	1977	1,172	5,923,574	242,140	57,065	17,550
	1982	858	5,283,258	280,643	66,691	14,455
Groceries, general line	1977	103	1,553,326	65,387	15,178	4,229
	1982	97	1,861,683	89,566	22,251	3,971
Frozen foods	1977	77	245,634	9,881	2,397	728
	1982	43	225,429	12,123	2,497	702
Dairy products	1977	124	666,378	16,890	3,988	1,280
	1982	87	323,620	21,559	5,074	1,046
Poultry & poultry products	1977	49	207/925	9,680	2,214	781
	1982	36	183,327	8,811	2,124	607
Confectionery	1977	75	120,103	5,829	1,394	523
	1982	50	63,503	4,196	962	279
Fish & seafoods	1977	38	79,388	5,341	1,247	408
	1982	26	(D)	(D)	(D)	(D)
Meat & meat products	1977	202	993,955	46,731	11,305	3,242
	1982	165	1,130,874	47,671	11,472	2,544
Fresh fruits & vegetables	1977	189	453,060	22,274	5,318	1,941
	1982	156	549,021	31,245	6,795	1,882
Groceries & related products, N.E.C.	1977	315	1,603,805	60,127	14,024	4,418
	1982	198	(D)	(D)	(D)	(D)

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
Nondurable goods (cont.)						
Farm product raw materials	1977	268	924,261	26,360	5,839	2,545
	1982	233	1,231,345	30,608	6,435	1,785
Cotton	1977	(D)	(D)	(D)	(D)	(D)
	1982	1	(D)	(D)	(D)	(D)
Grain	1977	207	602,529	21,218	4,809	1,786
	1982	196	(D)	(D)	(D)	(D)
Livestock	1977	40	288,550	2,723	625	636
	1982	21	169,011	1,307	299	131
Farm product raw materials N.E.C.	1977	21	33,182	1,827	405	123
	1982	15	(D)	(D)	(D)	(D)
Chemicals & allied products	1977	276	1,853,816	48,765	1,210	2,864
	1982	212	458,799	40,285	10,328	1,825
Petroleum & petroleum products	1977	654	3,153,807	69,973	17,764	5,611
	1982	449	2,896,239	77,244	19,523	5,392
Petroleum bulk stations and terminals	1977	516	2,480,344	51,422	13,398	4,357
	1982	327	1,585,501	53,374	13,304	3,848
Petroleum & petroleum products, except bulk stations & terminals	1977	138	673,463	18,551	4,366	1,254
	1982	122	1,310,738	23,870	6,219	1,544
Beer, wine & distilled alcoholic beverages	1977	343	1,230,378	84,787	18,616	4,705
	1982	293	1,522,870	130,708	31,022	5,235
Beer & ale	1977	204	599,841	65,966	14,145	3,400
	1982	175	(D)	(D)	(D)	(D)
Wines & distilled alcoholic beverages	1977	139	630,537	18,822	4,471	1,305
	1982	118	(D)	(D)	(D)	(D)

TABLE XX-4. DETAILED STATISTICS FOR WHOLESALE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Type of operation	Year	Number of establishments[a]	Sales ($1,000)	Annual payroll ($1,000)	Payroll first quarter ($1,000)	Paid employees 12 March
		Nondurable goods (cont.)				
Misc. nondurable goods	1977	964	1,728,356	103,518	24,156	8,690
	1982	830	1,817,291	115,529	26,765	7,115
Farm supplies	1977	370	406,023	24,587	5,700	2,272
	1982	334	539,562	33,458	7,475	2,080
Tobacco & tobacco products	1977	90	521,028	20,666	4,732	1,506
	1982	77	(D)	(D)	(D)	(D)
Paints, varnishes & supplies	1977	113	227,834	11,419	2,801	929
	1982	71	55,558	8,770	2,144	550
Nondurable goods, N.E.C.	1977	391	573,471	46,846	10,923	3,981
	1982	348	(D)	(D)	(D)	(D)
TOTAL NONDURABLE GOODS	1977	4,296	16,300,546	676,874	159,583	49,285
	1982	3,384	14,843,460	803,794	191,275	42,621
TOTAL	1977	12,572	45,151,519	2,108,920	494,970	141,484
	1982	12,999	59,805,780	3,041,316	750,285	146,482

SOURCE: Bureau of the Census, U.S. Census of Wholesale Trade, 1977, Area Series, Michigan (Washington, D.C.: 1980), WC77-A-23, Table I; and similar documents for 1982.

a. Excludes establishments with no paid employment.
(D): Withheld to avoid disclosing data for individual companies.
N.E.C.: not elsewhere classified.

TABLE XX-6. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN WHOLESALE TRADE ESTABLISHMENTS AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

County	Percentage 1974	Percentage 1984	County	Percentage 1974	Percentage 1984
Antrim	0.94	13.08	St. Clair	3.64	2.85
Dickinson	6.47	11.25	Saginaw	4.48	2.81
Osceola	2.28	9.96	Cass	4.15	2.70
Tuscola	5.44	9.69	Mason	1.96	2.64
Oakland	7.17	9.05	Montmorency	3.21	2.61
Kent	8.44	9.05	Chippewa	1.94	2.59
Hillsdale	3.47	7.53	Marquette	2.68	2.55
Genesee	6.56	7.13	Delta	3.18	2.43
Bay	5.98	6.17	Lenawee	1.97	2.42
Wayne	7.46	5.91	Washtenaw	2.21	2.41
Menominee	5.73	5.37	Calhoun	2.82	2.36
Huron	2.05	5.32	Presque Isle	1.88	2.35
Emmet	5.92	5.18	Mackinac	2.14	2.33
Grand Traverse	3.83	4.94	Ionia	2.13	2.26
Isabella	4.27	4.42	Gogebic	3.91	2.19
Kalamazoo	4.01	4.32	St. Joseph	3.76	2.16
Shiawassee	2.91	4.24	Clare	1.61	2.12
Berrien	3.03	4.24	Benzie	1.11	1.89
Alpena	3.52	4.20	Oceana	1.61	1.83
Eaton	2.28	4.14	Luce	3.98	1.83
Montcalm	2.26	4.11	Crawford	1.85	1.81
Ottawa	4.39	3.92	Charlevoix	1.96	1.80
Macomb	3.32	3.85	Cheboygan	(D)	1.62
Lapeer	2.14	3.82	Houghton	2.40	1.58
Wexford	4.76	3.80	Roscommon	2.35	1.53
Livingston	3.32	3.80	Alger	1.34	1.31
Jackson	3.85	3.80	Mecosta	1.06	0.90
Gratiot	3.30	3.57	Ontonagon	0.65	0.83
Kalkaska	3.25	3.56	Baraga	(D)	0.77
Muskegon	3.67	3.54	Alcona	1.59	0.65
Van Buren	2.67	3.37	Schoolcraft	(D)	0.60
Arenac	5.23	3.36	Barry	1.27	(D)
Allegan	2.37	3.34	Clinton	4.86	(D)
Monroe	2.19	3.20	Iosco	(D)	(D)
Branch	7.64	3.17	Keweenaw	1.96	(D)
Ingham	3.38	3.12	Lake	(D)	(D)
Otsego	3.29	3.09	Leelanau	(D)	(D)
Manistee	3.46	3.09	Midland	0.56	(D)
Newaygo	2.16	3.08	Ogemaw	2.53	(D)
Missaukee	3.54	3.01	Oscoda	(D)	(D)
Gladwin	3.27	2.93			
Iron	4.45	2.86	Michigan	5.68	5.56
Sanilac	1.92	2.85	United States	6.35	6.71

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XX-7. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN WHOLESALE TRADE ESTABLISHMENTS: 1983-1984

County	Percentage change		County	Percentage change	
	1974-1984	1983-1984		1974-1984	1983-1984
Hillsdale	339	113	Wexford	93	8
Lapeer	268	46	Otsego	167	7
Crawford	113	37	Dickinson	241	7
Schoolcraft	(D)	34	Huron	319	7
Macomb	142	31	Bay	78	7
Charlevoix	88	30	Baraga	(D)	6
Missaukee	55	29	Kalamazoo	149	6
Luce	-1	29	Eaton	283	6
Livingston	214	27	Alpena	117	5
Arenac	12	24	Allegan	213	5
Muskegon	82	23	Van Buren	117	5
Berrien	123	22	Antrim	2,311	4
Oakland	238	22	Saginaw	22	3
Monroe	193	21	Alcona	-9	3
Genesee	148	20	Ionia	112	3
Ottawa	149	19	Benzie	257	1
Washtenaw	187	18	Ingham	128	1
Wayne	26	17	Clare	186	1
Alger	84	17	Sanilac	131	0
Cass	39	16	Montcalm	291	-1
Emmet	88	16	Oceana	90	-2
Jackson	66	16	Cheboygan	(D)	-5
Kalkaska	325	15	St. Clair	63	-5
Mackinac	124	15	Gogebic	-18	-24
Kent	155	15	Mecosta	74	-28
Osceola	736	15	Houghton	37	-51
Delta	46	14	Branch	-22	-53
Shiawassee	158	14	Barry	(D)	(D)
Mason	150	13	Clinton	(D)	(D)
Isabella	129	13	Iosco	(D)	(D)
Calhoun	48	13	Iron	24	(D)
Menominee	104	13	Keweenaw	(D)	(D)
Manistee	84	11	Lake	(D)	(D)
Gratiot	71	10	Leelanau	(D)	(D)
Marquette	88	10	Midland	(D)	(D)
Presque Isle	121	10	Montmorency	27	(D)
Tuscola	171	10	Ogemaw	(D)	(D)
Grand Traverse	277	9	Ontonagon	-1	(D)
St. Joseph	23	9	Oscoda	(D)	(D)
Newaygo	203	9	Roscommon	47	(D)
Chippewa	65	9			
Lenawee	107	9	Michigan	95	17
Gladwin	89	9	United States	152	12

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

XXI. RETAIL TRADE

The first postwar business census was for 1948. Currently, the U.S. Bureau of the Census is authorized to conduct canvasses every five years, for years ending in 2 and 7. These economic censuses of industrial and business establishments cover construction, manufacturing, mining, retail trade, selected services, selected transportation industries, and wholesale trade. Establishments are classified on the basis of major economic activity, and those primarily engaged in selling goods for personal or household consumption are grouped under retail trade. They are further classified according to kind of business, which usually reflects commodity grouping. For example, food stores include establishments primarily selling food for preparation and consumption in the home. In some cases, such as variety stores, the classification is based on variety of merchandise, price range, or manner of doing business.

Beginning in 1954, the Census of Retail Trade has excluded firms with no paid employees during the census year unless they reported sales of $2,500 or more. Firms with no paid employees were not canvassed, their sales figures and classification being obtained from income tax returns.

It is customary in a economic census to classify each establishment separately, irrespective of whether it is part of a larger organization. For example, each McDonald's is counted as one restaurant.

Sales reported in the Census of Retail Trade do not include retail sales incidental to other kinds of business, such as wholesaling or services. They do include total receipts, including accruals, of retail establishments, even though some of these receipts were from servicing merchandise, carrying charges, delivering merchandise, wholesaling to other retailers, and so forth. Trade-in allowances are not deducted, but refunds and allowances for merchandise returned are. Sales and excise taxes are included, but nonoperating income (rental of real estate, interest or dividends on investments, and so forth) is not. Sales figures include sales so defined of all establishments with a sales volume of $2,500 or more at any time during the year, whereas the number of establishments in the Census of Retail Trade excludes those that have gone out of business during the year. Also included are establishments in operation less than the full year with reported sales of less than $2,500, if they could have expected reaching the $2,500 figure on the basis of year-round operation.

Payroll is as defined by the Internal Revenue Service. It includes wages and salaries, gratuities reported to the employer, commissions, bonuses, vacation and sick leave pay before deducting employees' income taxes, Social Security taxes, union dues, and so forth. Payments in kind, such as free restaurant meals, are included.

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TABLE XXI-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF SALES WORKERS IN MICHIGAN AND THE UNITED STATES RETAIL TRADE ESTABLISHMENTS: 1956-1985

	Michigan				United States			
	Employment	Weekly[a]		Hourly	Employment	Weekly		Hourly
Year	(000)	Hours	Earnings	earnings[a]	(000)	Hours	Earnings	earnings
1956	370.6	38.9	65.55	1.69	7,840	38.6	50.18	1.30
1957	356.0	37.6	65.46	1.74	7,858	38.1	52.20	1.37
1958	332.1	37.1	64.18	1.73	7,770	38.1	54.10	1.42
1959	322.9	37.3	66.32	1.78	8,045	38.2	56.15	1.47
1960	348.0	37.6	67.27	1.79	8,248	38.0	57.76	1.52
1961	340.1	38.0	69.58	1.83	8,204	37.6	58.66	1.56
1962	342.4	37.7	74.04	1.96	8,368	37.4	60.96	1.63
1963	345.0	38.7	74.57	1.93	8,530	37.3	62.66	1.68
1964	365.2	38.4	72.69	1.92	8,823	37.0	64.75	1.75
1965	390.7	38.5	76.73	1.99	9,250	36.6	66.61	1.82
1966	410.7	37.6	78.88	2.10	9,648	35.9	68.57	1.91
1967	419.7	37.0	81.25	2.20	9,917	35.3	70.95	2.01
1968	433.6	36.1	86.50	2.40	10,320	34.7	74.95	2.16
1969	455.9	35.0	93.98	2.69	10,798	34.2	78.66	2.30
1970	458.3	34.4	97.87	2.85	11,047	33.8	82.47	2.44
1971	460.7	34.3	108.18	3.15	11,351	33.7	87.62	2.60
1972	478.9	35.1	118.32	3.38	11,836	33.4	91.85	2.75
1973	503.3	34.6	124.84	3.61	12,329	33.1	96.32	2.91
1974	510.9	34.3	129.08	3.77	12,554	32.7	102.68	3.14
1975	509.6	34.5	141.62	4.11	12,645	32.4	108.86	3.36
1976	531.0	33.9	146.12	4.31	13,209	32.1	114.60	3.57
1977	557.1	34.0	156.88	4.61	13,808	31.6	121.66	3.85
1978	584.9	34.0	174.22	5.12	14,573	31.0	130.20	4.20
1979	590.9	33.2	186.32	5.61	14,989	30.6	138.62	4.53
1980	572.1	32.0	187.29	5.85	15,035	30.2	147.38	4.88
1981	556.8	33.3	214.50	6.44	15,189	30.1	158.03	5.25
1982	542.6	33.6	231.65	6.90	15,179	29.9	163.85	5.48
1983	556.9	32.7	236.13	7.22	15,613	29.8	171.05	5.74
1984	579.5	31.5	208.21	6.61	16,545	29.8	174.33	5.85
1985	608.3	31.0	206.46	6.66	17,360	29.4	174.64	5.94

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, *Employment and Earnings* (Washington, D.C.: monthly), March 1986, Tables B-1 and C-1; and *Supplement to Employment and Earnings* (Washington, D.C.: June 1986).

a. Excludes restaurants and bars.

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982

		Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	
Building materials, hardware, garden supply, and mobile home dealers						
Bldg. materials and supply stores	1977	1,261	1,080,288	120,393	26,832	10,408
	1982	1,178	1,091,391	134,418	31,024	8,833
Lumber and other bldg. material dealers	1977	937	1,002,657	106,832	23,551	8,935
	1982	898	995,323	119,013	27,585	7,569
Paint, glass, and wallpaper stores	1977	324	77,631	13,561	3,281	1,473
	1982	280	96,068	15,408	3,439	1,264
Hardware stores	1977	986	328,862	43,076	9,862	5,855
	1982	945	412,495	57,849	13,674	5,937
Retail nurseries, lawn & garden supply stores	1977	265	101,249	15,631	3,095	1,756
	1982	314	177,802	21,994	4,190	2,015
Mobile home dealers	1977	196	121,566	9,636	1,850	820
	1982	114	73,964	6,834	1,362	499
Total	1977	2,708	1,631,965	188,736	41,639	18,839
	1982	2,551	1,755,652	221,095	50,250	17,284
General merchandise group stores						
Department stores	1977	319	3,885,615	567,784	113,906	68,180
	1982	319	4,895,525	n.a.	n.a.	n.a.
Variety stores	1977	461	252,943	37,528	8,609	7,249
	1982	328	218,582	34,237	8,162	4,849
Misc. general merchandise stores	1977	359	230,587	24,438	5,573	3,750
	1982	290	271,950	28,487	6,267	3,702
Total	1977	1,139	4,369,145	629,750	127,088	79,179
	1982	937	4,927,608	608,533	138,185	66,661
Food stores						
Grocery stores	1977	4,650	5,980,923	558,991	129,210	58,974
	1982	4,607	7,711,535	740,712	175,668	64,926
Meat & fish (seafood) markets	1977	399	150,783	16,804	4,035	2,481
	1982	402	225,022	23,335	5,239	2,681
Fruit stores and vegetable mkts.	1977	176	96,821	8,118	1,682	1,469
	1982	181	160,721	14,399	2,633	1,814
Candy, nut, and confectionery stores	1977	267	34,149	6,724	1,472	1,190
	1982	237	37,972	7,009	1,604	1,084
Retail bakeries	1977	669	95,196	26,255	6,096	5,666
	1982	717	138,489	36,194	8,260	6,186
Retail bakeries, baking/selling	1977	570	83,189	23,792	5,458	5,094
	1982	648	124,194	34,064	7,754	5,805
Retail bakeries selling only	1977	99	12,007	2,463	638	572
	1982	69	14,295	2,130	506	381

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
		Food stores (cont.)				
Other food stores	1977	316	53,190	5,940	1,375	1,481
	1982	743	275,121	30,088	6,088	4,382
Dairy pro. stores	1977	170	21,699	2,828	640	886
	1982	127	27,094	3,060	583	626
Misc. food stores	1977	146	31,491	3,112	735	596
	1982	198	49,334	5,620	1,268	858
Total	1977	6,477	6,411,062	622,832	143,870	71,261
	1982	6,469	8,350,167	830,329	195,255	78,175
		Automotive dealers				
Motor vehicle dealers, new and used cars	1977	1,174	6,290,913	486,762	116,237	33,285
	1982	988	6,168,172	462,265	109,961	25,459
With domestic car franchise only	1977	867	4,678,024	352,382	84,748	23,986
	1982	n.a.	n.a.	n.a.	n.a.	n.a.
With imported car franchise only	1977	100	255,867	27,597	6,271	2,057
	1982	n.a.	n.a.	n.a.	n.a.	n.a.
Both	1977	207	1,357,022	106,783	25,218	7,242
	1982	n.a.	n.a.	n.a.	n.a.	n.a.
Motor vehicle dealers, used cars only	1977	383	160,455	11,885	2,482	1,109
	1982	280	150,175	9,733	2,122	766
Auto/home supply stores	1977	1,208	470,422	72,971	16,482	7,293
	1982	1,325	730,356	112,780	25,911	8,134
Tire, battery, and accessory dealers	1977	1,085	411,524	66,979	15,120	6,552
	1982	1,258	678,029	108,296	24,894	7,652
Other auto & home supply stores	1977	123	58,898	5,992	1,362	741
	1982	67	52,327	4,484	1,017	482
Misc. automotive dealers	1977	695	413,459	38,616	7,681	3,791
	1982	502	383,414	35,139	6,942	2,542
Boat dealers	1977	240	150,471	14,967	2,861	1,300
	1982	196	148,955	15,222	2,889	970
Recreational/util. trailer dealers	1977	188	148,323	12,078	2,382	1,085
	1982	125	119,778	9,215	1,818	618
Motorcycle dealers	1977	190	91,214	9,602	1,965	1,158
	1982	160	103,791	9,753	2,042	871
Auto dealers, N.E.C.	1977	77	23,451	1,969	473	248
	1982	21	10,890	949	193	83
Total	1977	3,460	7,335,249	610,234	142,862	45,478
	1982	3,095	7,432,117	619,917	144,936	36,901
		Gasoline service stations				
Total	1977	5,682	2,509,291	161,320	40,310	30,309
	1982	4,128	3,980,960	171,695	41,474	21,953

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
				Payroll ($1,000)		Paid employees[a] 12 March
		Number	Receipts ($1,000)	Entire year	First quarter	
Apparel and accessory stores						
Women's clothing, specialty, furriers	1977	1,479	711,578	101,237	23,516	17,216
	1982	1,675	981,129	111,861	26,191	15,747
Women's ready-to-wear stores	1977	1,295	666,510	94,748	22,071	16,251
	1982	1,443	931,353	103,607	24,230	14,584
Women's acc., specialty stores & furriers	1977	184	43,068	6,489	1,445	965
	1982	232	49,776	8,254	1,961	1,163
Men's/boy's clothing furnishing stores	1977	809	360,007	60,002	14,737	7,209
	1982	648	290,228	45,960	11,227	4,616
Family clothing stores	1977	410	234,461	29,439	7,568	5,639
	1982	496	410,146	50,590	11,457	6,942
Shoe stores	1977	933	250,834	36,516	8,137	5,032
	1982	1,310	453,905	59,448	14,237	7,159
Men's	1977	136	38,313	5,131	1,193	523
	1982	139	44,808	6,099	1,478	595
Women's	1977	187	58,696	9,407	2,021	1,310
	1982	324	123,594	17,403	4,159	1,976
Children's	1977	34	6,718	1,236	299	171
	1982	36	8,498	1,503	367	165
Family	1977	576	147,107	20,742	4,624	3,028
	1982	811	277,005	34,443	8,233	4,423
Other apparel and accessory stores	1977	351	63,576	10,320	2,483	1,901
	1982	337	86,479	11,528	2,632	1,873
Children's/infants wear stores	1977	166	33,331	4,719	1,167	1,028
	1982	165	52,398	6,303	1,357	1,104
Misc. apparel and accessory stores	1977	185	30,245	5,601	1,316	873
	1982	172	34,081	5,225	1,275	769
Total	1977	3,982	1,620,456	237,514	56,441	36,997
	1982	4,466	2,221,887	279,387	65,744	36,337
Furniture, home furnishings, and equipment stores						
Furniture and home furnishings stores	1977	1,754	780,108	123,430	27,902	11,937
	1982	1,649	876,480	128,412	29,474	10,719
Furniture stores	1977	945	516,997	82,561	18,701	7,515
	1982	817	556,912	81,713	19,188	6,359
Home furnishings .	1977	809	263,111	40,869	9,201	4,422
	1982	832	319,568	46,699	10,286	4,360
Floor covering	1977	432	190,755	28,551	6,960	2,393
	1982	399	207,523	28,878	6,337	1,998
Drapery, curtain upholstery stores	1977	177	33,275	5,956	1,478	999
	1982	153	37,811	6,528	1,453	851
Misc. home furnishing stores	1977	200	39,081	6,362	1,363	1,030
	1982	280	74,234	11,293	2,496	1,511
Household appliance stores	1977	464	265,593	28,063	6,535	2,898
	1982	360	278,647	30,481	7,250	2,479

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
Furniture, home furnishings, and equipment stores (cont.)						
Radio, television and music stores	1977	953	382,838	46,889	11,375	5,502
	1982	891	476,300	51,908	12,764	4,739
Radio/television	1977	590	276,173	32,760	7,783	3,430
	1982	570	357,420	35,555	8,738	3,005
Music stores	1977	363	106,665	14,129	3,592	2,072
	1982	321	118,880	16,353	4,026	1,734
Record shops	1977	144	41,482	4,280	1,005	655
	1982	177	61,639	6,737	1,607	812
Musical instrument shops	1977	219	65,183	9,849	2,587	1,417
	1982	144	57,241	9,616	2,419	922
Total	1977	3,171	1,428,539	198,382	45,812	20,337
	1982	2,900	1,631,427	210,801	49,488	17,937
Eating and drinking places						
Eating places	1977	8,849	2,220,260	567,499	130,378	142,198
	1982	9,345	3,354,322	863,162	195,620	165,041
Restaurants and lunchrooms	1977	4,438	1,197,242	325,100	75,239	81,720
	1982	4,507	1,746,595	479,227	109,890	91,232
Cafeterias	1977	198	58,880	14,893	3,546	3,796
	1982	129	54,766	14,090	3,358	2,766
Refreshment places	1977	3,315	774,674	170,744	38,527	45,694
	1982	3,779	1,281,013	290,098	64,706	60,058
Other eating places	1977	898	189,464	56,762	13,066	10,988
	1982	930	271,948	79,747	17,666	10,985
Drinking places (alcoholic bev.)	1977	3,737	427,126	80,494	19,633	19,552
	1982	2,915	400,304	73,806	17,377	14,603
Total	1977	12,586	2,647,386	647,993	150,011	161,750
	1982	12,260	3,754,626	936,968	212,997	179,644
Drug stores and proprietary stores						
Drug stores	1977	1,700	1,000,554	132,358	32,147	17,963
	1982	1,687	1,438,465	170,917	42,293	18,612
Proprietary stores	1977	123	44,232	3,797	899	694
	1982	135	55,965	6,107	1,400	864
Total	1977	1,823	1,044,786	136,155	33,046	18,657
	1982	1,822	1,494,430	177,024	43,693	19,476
Miscellaneous retail stores						
Liquor stores	1977	778	258,627	17,467	4,107	3,210
	1982	865	386,679	27,409	6,287	4,017

TABLE XXI-2. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES: 1947, 1954, 1958, 1963, 1967, 1972, 1977, AND 1982

	All establishments[a]				Establishments with payroll							
	Number (000)		Sales ($1,000,000)		Number (000)		Sales ($1,000,000)		Annual payroll ($1,000,000)		Paid employees[b] (000)	
Year	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.	Mich.	U.S.
1947[c]	68,756	1,771,317	5,950	130,520	n.a.	n.a.	n.a.	n.a.	663	14,186	311	7,083
1947	65,990	1,668,479	5,854	128,849	48,040	1,118,692	5,477	118,352	n.a.	n.a.	n.a.	n.a.
1954	67,995	1,721,650	8,168	169,968	50,331	1,124,040	7,776	157,933	879	18,199	325	7,124
1958	72,379	1,794,744	8,898	200,365	52,291	1,185,036	8,471	187,768	946	21,673	337	7,942
1963	69,758	1,707,931	10,853	244,202	51,568	1,206,087	10,431	233,085	1,110	27,632	340	8,410
1967	63,569	1,763,324	14,114	310,214	46,921	1,191,546	13,667	295,170	1,553	36,175	398	9,380
1972[d]	72,413	1,934,466	20,938	470,806	49,729	1,286,517	20,301	451,987	2,412	56,385	466	11,360
1972[e]	71,795	1,912,871	20,630	459,040	49,111	1,264,922	19,993	440,222	2,383	55,372	462	11,210
1972[f]	65,854	1,780,441	20,546	457,405	49,111	1,264,922	19,993	440,222	2,383	55,372	462	11,210
1977[f]	67,059	1,855,068	31,912	723,134	48,431	1,303,621	31,090	699,635	3,720	85,854	524	13,040
1982	66,642	1,923,228	39,216	1,065,917	46,644	1,330,316	38,454	1,039,029	4,446	123,619	518	14,468

SOURCE: Bureau of the Census, 1982 Census of Retail Trade, Geographic Area Series, Michigan (Washington, D.C.: 1985), RC82-A-23, Table 1; Bureau of the Census, U.S. Census of Retail Trade, 1982, Geographic Area Studies, United States (Washington, D.C.: 1985), RC82-A-52, Table 1; and similar documents for prior years.

a. Excludes establishments with no paid employment and with annual sales volume less than $2,500.
b. Week including 15 November for 1947-1963; week including 12 March for 1967.
c. Unrevised statistics. Based upon reports from establishments with sales volume of $500 or over.
d. Based on 1967 Standard Industrial Classification.
e. Based on 1972 Standard Industrial Classification, including direct selling establishments without payroll.
f. Based on 1972 Standard Industrial Classification, excluding direct selling establishments without payroll.
n.a.: not available.

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Miscellaneous retail stores (cont.)						
Used merchandise stores	1977	439	65,351	12,780	3,047	1,876
	1982	508	105,983	22,011	4,961	2,308
Nonstore retailers	1977	744	456,689	69,956	16,968	8,095
	1982	699	462,976	72,547	17,606	6,906
Mail order houses	1977	189	139,951	13,941	3,138	2,102
	1982	207	191,251	20,989	4,985	1,995
Automatic merchandising machine operators	1977	290	196,491	34,129	8,436	3,377
	1982	237	161,296	33,377	8,446	2,816
Direct selling establishments	1977	265	120,247	21,886	5,394	2,616
	1982	255	110,429	18,181	4,175	2,095
Fuel and ice dealers	1977	402	240,507	23,068	6,051	2,440
	1982	323	358,217	29,498	7,315	2,216
Fuel oil dealers	1977	198	135,318	10,555	2,711	1,162
	1982	133	178,779	10,597	2,570	1,008
Liquefied petroleum (bottled gas) dealers	1977	181	101,840	12,235	3,267	1,230
	1982	177	177,124	18,624	4,662	1,170
Fuel and ice dealers N.E.C.	1977	23	3,349	278	73	48
	1982	13	2,314	277	83	38
Florists	1977	698	90,800	19,662	4,485	3,467
	1982	702	125,127	25,864	5,898	3,604
Cigar stores & stands	1977	69	14,784	1,455	390	307
	1982	88	19,552	2,211	513	294
Miscellaneous shopping goods stores	1977	3,274	798,196	112,502	26,266	17,767
	1982	3,597	1,201,811	165,887	38,383	20,406
Sporting goods stores & bicycle shops	1977	784	212,256	27,019	5,946	3,377
	1982	859	346,112	41,462	9,469	4,308
General line sporting goods stores	1977	387	127,406	16,513	3,792	2,038
	1982	426	215,025	25,032	5,813	2,589
Specialty line sprtg goods stores	1977	397	84,850	10,506	2,154	1,339
	1982	433	131,087	16,430	3,656	1,719
Book stores	1977	295	77,086	9,255	2,222	1,565
	1982	359	116,096	14,796	3,654	2,121
Stationery stores	1977	125	32,649	5,492	1,299	782
	1982	134	44,662	8,071	1,772	789
Jewelry stores	1977	663	190,550	32,483	7,820	4,105
	1982	683	236,706	44,352	10,886	4,025
Hobby, toy & game shops	1977	270	77,160	8,826	2,045	1,822
	1982	275	146,351	14,015	2,960	2,001
Camera & photographic supply stores	1977	118	44,399	5,477	1,324	711
	1982	130	52,482	6,066	1,472	642
Gift, novelty and souvenir shops	1977	615	81,498	12,427	2,798	2,485
	1982	759	144,438	20,522	4,353	3,470
Luggage and leather goods stores	1977	54	11,702	1,901	462	293
	1982	83	22,728	3,877	992	464
Sewing, needlework & piece goods stores	1977	350	70,896	9,622	2,350	2,627
	1982	315	92,236	12,726	2,825	2,586

TABLE XXI-3. DETAILED STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
		Number	Receipts ($1,000)	Payroll ($1,000)		Paid employees 12 March[a]
				Entire year	First quarter	
		Miscellaneous retail stores (cont.)				
News dealers and newsstands	1977	39	9,942	1,011	239	200
	1982	47	10,245	946	223	172
Miscellaneous retail stores, N.E.C.	1977	960	156,975	29,280	6,661	3,380
	1982	1,187	234,771	43,981	10,134	4,132
Pet shops	1977	122	15,368	2,103	552	426
	1982	174	29,921	4,019	976	595
Typewriter stores	1977	27	4,968	1,245	292	116
	1982	25	4,077	1,066	237	105
Optical goods stores	1977	312	50,251	11,701	2,809	1,093
	1982	403	66,142	14,512	3,567	1,190
Other retail stores, N.E.C.	1977	499	86,388	14,231	3,008	1,745
	1982	585	134,631	24,384	5,354	2,242
Total	1977	7,403	2,091,871	287,181	68,214	40,742
	1982	8,016	2,905,361	390,354	91,320	44,055
Total retail trade	1977	48,431	31,089,750	3,720,097	850,313	523,549
	1982	46,644	38,454,235	4,446,103	1,033,342	518,423

SOURCE: Bureau of the Census, U.S. Census of Retail Trade, 1977, Area Series, Michigan (Washington, D.C.: 1979), RC77-A-23, Table 1; and Bureau of the Census, Census of Retail Trade, 1982, Area Series, Michigan (Washington, D.C.: 1985), RC82-A-23, Table 1.

a. Week including 12 March.
N.E.C.: Not elsewhere classified.
n.a.: Data not available.

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Alcona	1977	104	21,152	68	18,851	1,727	383	281
	1982	99	20,833	64	19,120	1,753	386	228
Alger	1977	126	23,515	85	22,114	2,099	488	398
	1982	107	23,609	71	21,462	1,989	408	261
Allegan	1977	589	172,398	372	163,661	15,818	3,565	2,490
	1982	585	230,000	380	222,393	23,264	5,137	2,883
Alpena	1977	361	120,187	260	115,800	12,851	2,948	1,887
	1982	320	137,039	230	133,160	14,616	3,519	1,840
Antrim	1977	183	39,130	124	36,137	3,674	760	522
	1982	162	40,119	105	36,575	3,864	797	515
Arenac	1977	170	41,350	104	37,810	3,445	778	768
	1982	144	55,649	96	52,213	4,935	1,065	640
Baraga	1977	91	25,950	58	24,543	2,069	463	407
	1982	76	27,460	55	26,546	2,344	509	330
Barry	1977	262	70,972	169	67,273	6,885	1,569	1,095
	1982	273	92,102	162	88,496	9,536	2,188	1,177
Bay	1977	948	423,811	706	412,598	46,888	10,732	6,842
	1982	915	480,208	679	473,851	55,705	12,918	7,032
Benzie	1977	158	35,188	110	33,007	3,289	672	469
	1982	121	36,549	81	34,484	3,328	651	364
Berrien	1977	1,493	601,021	1,023	582,367	68,036	15,621	10,327
	1982	1,355	670,296	967	656,672	72,633	16,563	9,015
Branch	1977	373	112,248	245	107,364	10,943	2,456	1,714
	1982	303	134,614	210	130,820	12,068	2,761	1,575
Calhoun	1977	1,096	458,717	822	449,307	60,047	13,046	8,590
	1982	1,035	556,419	754	546,602	63,823	15,189	8,028
Cass	1977	323	85,190	206	80,655	8,959	1,968	1,311
	1982	285	93,131	176	89,099	8,791	2,037	1,218
Charlevoix	1977	245	57,057	168	54,108	5,758	1,241	848
	1982	232	75,374	160	72,728	8,285	1,690	948
Cheboygan	1977	300	81,488	244	79,195	9,907	1,860	1,178
	1982	317	107,966	268	105,957	13,108	2,501	1,446

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Chippewa	1977	371	96,034	256	90,243	10,349	2,305	1,551
	1982	314	104,760	230	100,552	11,434	2,522	1,496
Clare	1977	264	70,763	176	66,674	6,910	1,677	1,046
	1982	239	93,491	159	89,278	9,019	2,041	1,032
Clinton	1977	310	114,306	213	111,308	11,100	2,689	1,605
	1982	316	151,303	193	147,209	14,434	3,435	1,651
Crawford	1977	121	38,257	86	36,949	3,495	741	546
	1982	98	39,621	76	38,490	4,121	860	519
Delta	1977	417	133,249	301	127,947	12,866	2,997	2,033
	1982	391	173,480	282	168,640	16,785	3,727	2,149
Dickinson	1977	303	96,930	214	94,070	10,289	2,432	1,624
	1982	279	113,443	188	108,438	12,345	2,812	1,696
Eaton	1977	642	337,887	463	330,941	40,462	8,686	5,594
	1982	686	463,840	475	458,685	50,726	12,275	6,410
Emmet	1977	380	120,378	287	116,883	14,600	3,195	2,081
	1982	345	149,420	274	146,657	17,862	3,852	2,059
Genesee	1977	2,993	1,817,915	2,305	1,789,955	208,467	46,056	27,612
	1982	2,915	2,043,964	2,180	2,020,668	228,629	53,397	25,799
Gladwin	1977	160	45,064	114	42,533	4,097	911	663
	1982	175	57,340	112	54,766	5,213	1,156	697
Gogebic	1977	272	60,740	174	57,652	5,981	1,502	1,141
	1982	222	74,306	163	70,860	7,705	1,832	1,173
Grand Traverse	1977	626	235,242	453	228,152	29,767	6,872	4,210
	1982	705	383,502	510	375,552	44,512	10,069	5,171
Gratiot	1977	365	115,007	256	110,234	12,512	2,930	1,944
	1982	320	145,926	214	139,689	14,630	3,474	1,846
Hillsdale	1977	345	96,388	204	89,830	9,232	2,108	1,382
	1982	318	116,421	209	112,040	12,256	2,881	1,405
Houghton	1977	375	100,858	256	95,464	10,336	2,364	1,796
	1982	334	124,060	240	118,529	13,760	3,136	1,951
Huron	1977	444	101,580	286	94,370	9,515	2,221	1,567
	1982	386	134,626	251	127,364	12,833	3,039	1,700

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishment		Establishments with payroll				
						Payroll ($1,000)		
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Ingham	1977	1,775	1,000,941	1,321	984,425	125,203	27,689	18,172
	1982	1,801	1,274,798	1,325	1,260,247	152,489	36,214	19,359
Ionia	1977	367	139,309	266	134,797	14,679	2,904	2,087
	1982	362	161,887	247	155,880	15,635	3,502	1,948
Iosco	1977	348	83,191	235	79,553	8,664	1,838	1,276
	1982	289	101,376	197	97,515	10,060	2,147	1,258
Iron	1977	208	45,716	127	43,538	3,705	862	767
	1982	154	41,928	105	39,977	4,223	956	665
Isabella	1977	369	146,264	281	142,021	16,674	3,837	2,805
	1982	372	195,101	272	189,938	21,276	5,004	3,007
Jackson	1977	1,015	482,474	756	471,943	62,152	13,755	8,686
	1982	1,006	593,765	743	583,829	59,642	16,272	8,235
Kalamazoo	1977	1,500	798,370	1,163	786,336	105,752	23,497	15,278
	1982	1,642	1,109,713	1,218	1,097,380	131,850	30,280	16,094
Kalkaska	1977	97	33,591	61	31,423	3,173	687	450
	1982	91	46,154	53	43,962	3,796	848	456
Kent	1977	3,172	1,733,723	2,272	1,696,483	222,748	49,339	32,005
	1982	3,229	2,334,642	2,278	2,300,773	278,261	65,776	32,636
Keweenaw	1977	45	3,688	26	2,964	335	53	49
	1982	27	3,594	21	3,380	353	31	27
Lake	1977	98	12,796	58	10,889	1,171	249	222
	1982	62	16,428	46	14,615	1,503	364	209
Lapeer	1977	374	159,360	268	153,644	14,945	3,555	2,273
	1982	427	197,916	260	190,471	18,801	4,346	2,245
Leelanau	1977	179	26,693	114	24,518	2,560	538	416
	1982	142	36,782	96	35,194	4,210	783	468
Lenawee	1977	763	303,537	546	294,213	30,921	6,957	4,698
	1982	701	326,283	499	318,976	36,892	8,482	4,672
Livingston	1977	557	225,970	381	218,083	22,643	5,102	3,425
	1982	555	308,903	354	300,576	33,269	7,496	3,998
Luce	1977	78	22,409	59	21,468	2,043	485	304
	1982	59	24,231	42	23,193	2,497	531	336

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Mackinac	1977	219	35,823	172	33,767	4,053	746	550
	1982	214	49,225	164	47,536	5,605	1,030	693
Macomb	1977	4,224	2,702,797	3,093	2,648,380	300,874	69,983	40,639
	1982	4,372	3,578,552	3,217	3,527,802	383,687	88,871	42,879
Manistee	1977	250	63,081	175	60,500	6,224	1,364	998
	1982	233	81,595	171	78,324	8,224	1,829	990
Marquette	1977	597	212,969	457	205,112	23,975	5,456	4,206
	1982	524	254,327	404	249,705	29,053	6,805	4,100
Mason	1977	257	81,970	183	78,422	8,335	1,755	1,412
	1982	242	93,533	182	89,106	9,749	2,105	1,347
Mecosta	1977	297	90,783	200	86,339	9,588	2,230	1,602
	1982	272	126,962	196	123,932	12,782	3,000	1,862
Menominee	1977	234	64,207	140	59,177	5,680	1,344	1,062
	1982	176	62,540	116	58,074	6,534	1,452	914
Midland	1977	467	212,662	339	207,995	23,756	5,643	3,336
	1982	481	289,628	344	284,939	32,909	7,716	3,898
Missaukee	1977	80	18,644	55	17,521	1,538	321	253
	1982	84	25,698	46	24,299	2,289	493	312
Monroe	1977	713	331,270	516	319,983	33,304	7,590	4,562
	1982	705	385,660	468	375,718	41,254	9,444	4,606
Montcalm	1977	339	146,166	274	139,938	14,832	3,036	2,041
	1982	372	183,829	255	178,415	16,357	3,780	1,980
Montmorency	1977	101	21,599	65	19,342	1,943	430	301
	1982	79	24,757	57	22,686	2,285	478	295
Muskegon	1977	1,109	478,025	808	466,523	57,378	12,258	8,261
	1982	1,032	589,446	781	577,513	66,055	15,087	8,193
Newaygo	1977	253	67,034	187	64,170	6,340	1,408	990
	1982	237	90,053	161	86,402	9,193	2,026	1,134
Oakland	1977	7,741	4,528,678	5,520	4,433,867	544,196	126,453	73,939
	1982	8,188	5,975,958	5,878	5,888,988	704,966	165,442	77,579
Oceana	1977	209	44,700	134	41,588	4,113	877	672
	1982	197	53,770	125	50,348	5,356	1,230	782

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

County	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Ogemaw	1977	198	55,396	136	52,537	5,211	1,173	736
	1982	194	79,365	139	77,029	7,026	1,554	821
Ontonagon	1977	124	27,758	73	24,617	2,253	520	451
	1982	103	33,360	75	31,237	2,940	684	459
Osceola	1977	193	36,530	123	32,646	3,092	688	502
	1982	169	56,654	109	52,287	4,641	1,025	601
Oscoda	1977	86	13,550	56	12,001	1,351	322	268
	1982	90	23,881	58	22,946	2,167	465	287
Otsego	1977	204	63,476	144	60,154	6,765	1,468	1,110
	1982	187	83,843	138	80,703	9,718	2,190	1,096
Ottawa	1977	1,003	408,594	699	394,810	49,545	10,254	7,315
	1982	1,070	613,340	747	600,474	65,787	15,377	8,601
Presque Isle	1977	152	35,706	100	32,400	3,110	706	518
	1982	122	39,040	78	36,205	3,488	766	479
Roscommon	1977	305	61,482	202	57,190	6,462	1,301	966
	1982	278	86,186	187	81,577	7,796	1,650	924
Saginaw	1977	1,637	848,317	1,239	831,264	102,468	23,730	14,895
	1982	1,581	1,080,754	1,177	1,065,181	122,516	28,027	14,243
St. Clair	1977	1,008	394,258	685	379,301	45,474	10,420	6,804
	1982	938	479,550	653	465,665	57,602	13,384	6,854
St. Joseph	1977	498	160,341	342	154,621	16,176	3,789	2,408
	1983	444	206,003	308	199,712	19,326	4,500	2,306
Sanilac	1977	402	95,154	239	86,277	7,851	1,776	1,145
	1982	342	115,718	211	106,830	10,336	2,307	1,252
Schoolcraft	1977	129	26,982	95	25,459	2,611	570	430
	1982	101	30,505	73	28,448	3,155	704	432
Shiawassee	1977	504	203,312	358	197,371	19,917	4,852	3,022
	1982	475	219,929	332	215,390	22,338	5,297	2,802
Tuscola	1977	470	128,591	312	121,225	11,798	2,832	1,834
	1982	423	163,162	284	155,516	15,306	3,573	1,872
Van Buren	1977	522	159,370	320	152,042	15,700	3,444	2,206
	1982	480	207,595	314	200,961	20,287	4,605	2,391

TABLE XXI-4. SUMMARY STATISTICS FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
County	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Washtenaw	1977	1,671	981,126	1,242	962,364	123,545	27,488	17,148
	1982	1,786	1,320,397	1,324	1,303,688	151,454	37,585	18,767
Wayne	1977	14,373	7,834,951	10,804	7,661,296	940,110	222,140	126,982
	1982	12,885	8,463,535	9,701	8,304,646	1,000,444	234,190	111,344
Wexford	1977	275	109,048	202	105,258	10,788	2,364	1,550
	1982	274	122,804	201	118,444	12,415	2,812	1,561
Total	1977	67,059	31,912,356	48,431	31,089,750	3,720,097	850,313	523,549
	1982	64,642	39,215,526	46,644	38,454,235	4,446,103	1,033,342	518,423

SOURCE: Bureau of the Census, *1977 Census of Retail Trade, Area Series, Michigan*, (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, *1982 Census of Retail Trade, Michigan*, (Washington, D.C.: 1983), RC82-A-23, Table 8.

a. Pay period including 12 March.

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Adrian	1977	237	126,558	189	124,898	15,039	3,408	2,376
	1982	254	166,383	196	164,529	18,957	4,473	2,504
Albion	1977	104	37,508	87	37,026	4,349	1,035	710
	1982	104	39,133	80	38,415	4,742	1,129	674
Algonac	1977	50	15,662	33	14,966	1,823	414	270
	1982	58	23,250	32	22,181	2,394	531	262
Allegan	1977	101	39,324	66	37,901	3,467	814	505
	1982	95	32,594	56	31,705	3,321	810	399
Allen Park	1977	221	97,285	167	94,301	11,861	2,899	2,142
	1982	242	123,984	179	121,590	14,153	3,300	1,975
Alma	1977	146	61,909	116	60,179	7,093	1,634	1,062
	1982	139	73,615	107	71,393	7,915	1,908	986
Alpena	1977	254	100,442	197	97,941	11,264	2,522	1,657
	1982	258	95,643	185	92,692	10,754	2,652	1,438
Ann Arbor	1977	824	499,241	646	493,478	66,803	15,269	9,844
	1982	889	676,848	707	670,817	91,409	21,541	11,026
Bad Axe	1977	69	29,107	54	28,142	3,150	711	443
	1982	90	52,021	63	50,346	5,323	1,301	690
Battle Creek	1977	453	197,715	336	194,235	25,398	5,971	3,494
	1982	353	195,377	258	192,164	24,531	5,953	2,982
Bay City	1977	506	214,201	401	208,502	25,008	5,887	3,705
	1982	460	224,981	353	221,934	27,709	6,570	3,437
Belding	1977	44	22,446	38	22,210	2,450	511	381
	1982	51	22,906	34	21,775	2,812	603	280
Belleville	1977	95	30,562	66	29,547	3,386	769	569
	1982	62	34,713	46	34,072	3,310	832	400
Benton Harbor	1977	206	104,068	135	101,518	11,893	2,834	1,775
	1982	222	166,185	153	163,946	16,617	3,876	1,897
Berkley	1977	138	48,158	107	46,398	7,347	1,698	1,158
	1982	157	65,428	124	63,491	9,351	2,294	1,336
Bessemer	1977	44	11,537	31	11,165	1,028	253	216
	1982	28	14,704	18	14,074	1,405	337	170

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Beverly Hills	1977	50	14,003	19	12,837	1,938	471	221
	1982	50	16,[illegible]35	21	15,576	2,637	578	217
Big Rapids	1977	126	47,270	104	46,245	5,749	1,391	1,002
	1982	144	79,192	111	78,291	8,622	2,107	1,298
Birmingham	1977	392	211,805	316	208,856	28,721	6,874	3,902
	1982	382	243,196	295	240,534	34,432	8,125	3,798
Blissfield	1977	51	16,447	42	15,694	1,343	280	252
	1982	39	10,640	29	10,315	1,555	374	239
Bloomfield Hills	1977	62	24,442	43	23,639	3,629	822	526
	1982	68	43,954	49	43,631	6,739	1,584	773
Boyne City	1977	72	18,115	56	17,326	1,844	412	290
	1982	50	17,586	36	16,844	1,907	421	256
Brighton	1977	118	43,066	69	41,589	4,201	954	598
	1982	201	127,474	123	124,577	13,222	2,837	1,551
Buchanan	1977	52	19,787	39	19,549	1,903	439	265
	1982	66	23,546	47	23,024	2,611	587	298
Burton	1977	217	190,694	178	189,547	26,287	5,003	3,191
	1982	197	182,643	166	181,861	23,235	5,503	2,796
Cadillac	1977	181	73,337	142	71,900	7,486	1,645	1,043
	1982	195	89,903	147	87,118	9,584	2,216	1,216
Carleton[b]	1982	29	11,385	15	10,493	1,125	227	125
Caro	1977	97	36,276	79	35,455	3,808	874	543
	1982	104	41,623	80	40,249	4,580	1,051	595
Cedar Springs[b]	1982	47	27,991	28	27,352	2,225	503	246
Center Line	1977	80	93,756	61	92,580	8,302	1,840	877
	1982	75	100,895	60	100,073	10,353	2,410	884
Charlevoix	1977	100	26,424	68	25,633	2,799	615	396
	1982	94	31,968	77	31,468	3,792	763	430
Charlotte	1977	137	52,563	104	51,445	5,775	1,422	953
	1982	125	62,482	94	61,605	6,468	1,543	779
Cheboygan	1977	138	41,935	113	40,508	4,575	924	618
	1982	183	63,681	154	62,478	7,906	1,704	950

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees 12 March[a]
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Chelsea	1977	62	38,684	52	37,589	3,660	932	456
	1982	68	41,610	49	41,069	4,880	1,087	486
Chesaning	1977	51	29,046	36	28,581	2,303	509	339
	1982	57	39,933	45	38,997	3,759	899	502
Clare	1977	103	39,691	76	38,721	4,013	1,028	556
	1982	90	(D)	65	(D)	(D)	(D)	(D)
Clawson	1977	116	47,347	86	46,334	6,493	1,577	1,018
	1982	103	50,384	74	49,109	6,646	1,588	882
Coldwater	1977	184	66,835	130	64,963	7,116	1,559	1,073
	1982	179	101,992	130	99,595	9,012	2,092	1,140
Coppersville[b]	1982	38	8,336	17	7,630	572	120	66
Corunna	1977	39	22,092	22	21,081	2,368	579	341
	1982	36	18,138	27	17,918	2,001	473	284
Davison	1977	64	40,965	49	40,538	3,765	882	485
	1982	106	45,243	56	44,397	5,436	1,266	592
Dearborn	1977	908	778,779	734	770,119	93,367	21,548	12,196
	1982	898	860,553	742	852,227	108,896	25,567	12,117
De Witt[b]	1982	41	13,207	14	12,496	1,144	255	143
Dearborn Heights	1977	415	173,825	311	167,662	20,471	4,941	3,449
	1982	408	214,163	307	209,166	26,666	5,956	3,321
Detroit	1977	6,914	2,968,783	5,142	2,878,924	357,541	86,842	48,457
	1982	5,431	2,884,011	4,125	2,809,113	345,013	80,806	37,821
Dowagiac	1977	145	35,669	90	33,301	3,795	791	495
	1982	105	44,087	70	42,900	3,999	915	512
Durand	1977	63	32,305	46	31,813	2,577	558	350
	1982	69	35,746	54	35,438	3,379	744	356
East Detroit	1977	290	206,395	213	201,410	18,969	4,563	2,400
	1982	281	261,025	213	257,261	23,801	5,485	2,493
East Grand Rapids	1977	47	18,423	30	17,685	2,546	576	442
	1982	65	30,815	30	30,189	4,078	968	465
East Lansing	1977	202	97,140	158	95,829	13,558	3,167	2,698
	1982	205	126,289	157	125,436	18,818	4,722	3,223

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
East Tawas[b]	1977	62	17,160	45	16,730	2,217	451	322
Eaton Rapids	1977	69	25,335	47	24,650	2,326	501	319
	1982	72	35,135	42	34,642	3,103	731	345
Ecorse	1977	92	21,337	63	20,125	3,028	740	457
	1982	65	14,556	48	13,550	2,101	535	414
Escanaba	1977	234	104,266	190	102,340	10,693	2,524	1,661
	1982	224	132,380	186	130,800	13,358	2,973	1,663
Essexville	1977	63	12,265	48	11,938	1,414	348	332
	1982	52	29,734	37	29,159	3,081	688	627
Farmington	1977	199	118,770	151	116,902	13,413	3,210	1,724
	1982	237	163,558	199	162,155	18,191	4,213	2,208
Fenton	1977	143	96,724	103	95,029	9,129	2,009	1,135
	1982	160	118,152	99	116,545	10,216	2,344	1,059
Ferndale	1977	220	133,478	162	130,383	13,112	3,334	1,463
	1982	175	135,273	131	133,132	15,622	3,914	1,325
Flat Rock	1977	71	30,072	54	29,379	3,410	791	526
	1982	69	43,352	51	42,388	5,292	1,267	622
Flint	1977	1,421	688,143	1,147	676,353	82,033	18,918	11,450
	1982	1,293	858,255	1,070	848,861	99,744	23,390	11,197
Flushing	1977	104	49,584	71	48,207	4,847	1,263	626
	1982	128	71,995	76	70,736	7,811	1,957	693
Frankenmuth	1977	79	46,755	64	46,059	6,952	1,620	960
	1982	78	65,291	61	65,063	10,301	2,273	1,190
Franklin	1977	39	6,698	28	6,401	1,002	211	163
	1982	24	5,774	11	5,360	735	171	101
Fraser	1977	110	34,713	65	31,949	3,934	972	598
	1982	116	60,814	75	58,792	7,152	1,702	1,056
Fremont	1977	91	32,144	71	31,232	3,114	703	426
	1982	96	50,557	72	49,982	5,283	1,170	588
Garden City	1977	201	130,985	148	128,519	14,389	3,387	1,938
	1982	216	139,302	150	135,425	14,925	3,619	1,697

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Gaylord	1977	129	48,227	101	46,765	5,128	1,085	848
	1982	136	60,572	107	59,151	7,794	1,784	915
Gibraltar	1977	15	(D)	9	(D)	(D)	(D)	(D)
	1982	16	3,898	11	3,688	484	110	90
Gladstone	1977	78	16,282	54	14,897	1,347	301	220
	1982	61	21,588	42	20,601	1,806	408	255
Grand Blanc	1977	97	46,954	64	45,866	6,273	1,412	854
	1982	124	51,960	83	50,381	6,421	1,448	765
Grand Haven	1977	171	76,007	125	73,531	10,110	2,070	1,339
	1982	194	115,795	153	114,064	12,795	2,919	1,800
Grand Ledge	1977	100	32,001	57	29,904	2,956	688	423
	1982	91	18,803	45	17,556	1,891	445	279
Grand Rapids	1977	1,512	756,703	1,108	739,445	103,040	23,589	15,104
	1982	1,395	873,016	1,020	858,757	109,960	25,893	12,797
Grandville	1977	95	64,682	66	63,353	6,964	1,543	926
	1982	136	100,920	101	99,478	11,983	2,575	1,319
Greenville	1977	94	45,837	70	44,903	6,171	1,120	733
	1982	114	73,678	78	72,424	7,146	1,648	864
Grosse Pointe	1977	93	50,474	69	49,974	7,719	1,738	1,057
	1982	89	71,843	72	71,217	10,545	2,434	1,102
Grosse Pte. Farms	1977	88	46,501	59	45,802	6,181	1,504	831
	1982	67	42,760	50	42,259	6,120	1,357	551
Grosse Pte. Park	1977	71	32,389	45	31,318	3,463	908	435
	1982	66	33,610	50	32,858	3,552	756	458
Grosse Pte. Shores	1977	6	(D)	2	(D)	(D)	(D)	(D)
	1982	7	1,208	5	(D)	(D)	(D)	(D)
Grosse Pte. Woods	1977	145	48,103	104	45,579	6,271	1,523	966
	1982	157	63,584	107	62,162	8,502	1,938	1,073
Hamtramck	1977	261	72,112	188	67,370	7,882	1,894	1,105
	1982	201	65,316	145	62,717	7,499	1,761	790
Hancock	1977	73	25,562	51	24,874	2,712	640	453
	1982	63	28,721	49	28,262	3,001	713	405

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	employees[a] 12 March
Harper Woods	1977	177	224,854	147	223,766	27,639	6,842	3,766
	1982	177	235,289	153	234,429	29,130	6,875	3,265
Hartford[c]	1977	38	13,174	25	12,881	1,288	293	179
Hastings	1977	119	44,452	79	42,776	4,378	980	636
	1982	132	57,306	81	56,067	6,095	1,414	723
Hazel Park	1977	162	59,928	108	57,308	8,043	1,715	1,167
	1982	138	68,089	99	66,554	8,493	1,981	1,022
Highland Park	1977	183	112,706	145	110,031	15,656	3,697	1,919
	1982	144	96,433	117	94,938	11,758	3,021	1,059
Hillsdale	1977	132	60,430	96	58,822	6,237	1,411	907
	1982	132	74,633	99	72,968	8,290	1,955	913
Holland	1977	350	127,739	255	124,155	13,009	3,042	2,257
	1982	418	224,699	303	(D)	(D)	(D)	(D)
Holly	1977	63	18,219	42	17,802	1,600	352	253
	1982	61	27,670	35	27,066	2,752	632	311
Houghton	1977	73	25,970	57	25,230	3,134	727	494
	1982	77	38,084	68	37,057	4,955	1,143	793
Howell	1977	117	52,614	86	51,861	5,218	1,167	776
	1982	157	56,134	88	54,051	6,294	1,526	788
Hudson	1977	54	12,237	37	11,534	1,150	239	178
	1982	42	15,189	27	14,773	1,858	429	222
Hudsonville	1977	34	9,622	17	9,163	928	192	146
	1982	36	17,264	26	16,923	1,733	379	212
Huntington Woods	1977	32	4,630	10	3,859	472	166	67
	1982	27	6,605	10	6,227	750	156	85
Inkster	1977	135	63,639	94	61,472	7,577	1,755	1,011
	1982	105	62,152	84	61,545	7,152	1,728	841
Ionia	1977	112	40,966	90	40,333	4,126	926	681
	1982	129	50,195	102	48,632	5,050	1,158	702
Iron Mountain	1977	171	52,464	129	50,984	6,368	1,526	957
	1982	125	52,134	95	50,368	6,396	1,446	879
Iron River[c]	1977	104	26,968	72	26,109	2,544	581	491

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Ironwood	1977	142	40,812	105	39,615	4,252	1,087	778
	1982	131	49,169	105	47,741	5,404	1,279	849
Ishpeming	1977	103	28,273	78	27,122	2,578	631	494
	1982	95	41,110	73	39,951	3,821	963	555
Ithaca	1977	55	15,753	41	15,142	1,684	423	255
	1982	55	26,351	36	25,151	2,405	548	259
Jackson	1977	457	202,542	368	199,420	26,951	6,531	3,947
	1982	436	242,093	340	238,135	31,325	7,430	3,599
Kalamazoo	1977	713	397,155	575	392,238	53,158	12,623	8,076
	1982	678	457,562	542	453,613	60,267	14,058	7,355
Keego Harbor	1977	37	6,213	29	5,852	716	164	140
	1982	39	7,502	26	6,864	950	282	151
Kentwood	1977	180	116,380	134	114,979	16,546	3,598	2,478
	1982	332	308,218	247	305,477	38,463	8,953	4,846
Kingsford	1977	44	28,331	29	28,049	2,601	587	449
	1982	69	40,111	45	39,505	4,028	951	582
Lake Orion	1977	77	24,614	42	23,234	2,304	576	386
	1982	50	30,887	30	30,464	3,367	740	416
L'Anse	1977	57	19,421	43	18,839	1,572	344	327
	1982	46	18,813	34	18,310	1,593	344	228
Lansing	1977	984	628,893	747	615,994	76,489	17,259	10,526
	1982	911	745,087	706	737,843	87,645	20,786	10,223
Lapeer	1977	131	94,721	103	97,716	9,293	2,253	1,356
	1982	170	114,390	118	111,478	11,888	2,832	1,451
Lathrup Village	1977	187	76,237	122	73,591	8,566	1,644	927
	1982	91	42,766	70	41,900	6,480	1,385	781
Laurim	1977	39	11,606	29	11,162	958	233	168
	1982	29	7,071	17	6,848	862	164	88
Lincoln Park	1977	332	237,781	284	234,795	32,764	7,528	4,176
	1982	309	226,980	253	223,739	29,778	7,076	3,391
Livonia	1977	798	616,067	613	608,574	77,874	17,720	10,000
	1982	882	767,389	660	757,150	86,915	19,778	9,099

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Lowell	1977	51	29,583	36	28,939	2,311	507	302
	1982	63	40,365	39	39,731	2,924	717	313
Ludington	1977	149	35,016	110	33,436	3,922	900	711
	1982	145	47,189	111	44,782	4,848	1,104	695
Madison Heights	1977	235	110,163	172	107,216	14,153	3,262	2,244
	1982	256	189,674	193	186,766	23,698	5,513	2,829
Manistee	1977	141	37,144	103	35,983	3,843	844	627
	1982	136	48,122	105	46,647	5,168	1,192	657
Manistique	1977	82	23,440	67	22,933	2,284	508	368
	1982	101	30,505	73	28,448	3,155	704	432
Marine City	1977	79	26,262	56	24,577	2,431	546	395
	1982	83	32,473	59	31,157	3,465	843	559
Marquette	1977	281	109,182	238	107,009	13,861	3,171	2,187
	1982	265	133,759	216	132,131	17,139	4,058	2,389
Marysville	1977	58	18,308	43	17,996	1,875	483	397
	1982	49	19,967	40	19,513	2,593	593	395
Marshall	1977	152	47,841	111	46,785	5,251	1,170	927
	1982	142	56,309	102	54,568	6,168	1,432	890
Mason	1977	97	38,963	68	37,325	3,564	823	595
	1982	63	37,928	49	37,232	3,383	797	439
Melvindale	1977	71	45,208	54	44,078	5,649	1,318	918
	1982	65	49,348	49	47,664	6,202	1,424	722
Menominee	1977	125	50,533	85	48,596	4,871	1,150	852
	1982	101	50,677	71	48,808	5,378	1,185	722
Midland	1977	369	(D)	278	(D)	(D)	(D)	(D)
	1982	400	(D)	298	(D)	(D)	(D)	(D)
Milan	1977	67	25,698	40	(D)	(D)	(D)	(D)
	1982	51	(D)	33	20,570	2,395	547	236
Milford	1977	82	32,604	48	31,645	2,914	658	367
	1982	66	43,354	47	42,685	4,552	1,029	470
Monroe	1977	246	92,173	186	89,146	10,037	2,237	1,466
	1982	326	191,089	234	186,316	20,832	4,862	2,550

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Mount Clemens	1977	273	139,325	182	135,288	15,762	3,814	2,081
	1982	253	118,141	172	114,934	13,123	3,190	1,580
Mount Morris	1977	70	29,400	51	28,248	2,525	548	305
	1982	79	33,773	49	33,240	3,486	813	428
Mount Pleasant	1977	257	114,980	211	113,136	3,856	3,172	2,333
	1982	276	155,638	214	153,064	18,189	4,268	2,671
Muskegon	1977	372	164,636	295	161,928	20,097	4,539	3,063
	1982	375	203,073	303	199,344	24,023	5,653	3,015
Muskegon Heights	1977	126	31,244	101	30,242	3,897	892	615
	1982	105	90,050	81	88,628	9,934	2,260	1,018
Munising	1977	76	17,972	55	17,315	1,735	404	309
	1982	48	16,485	40	15,765	1,366	287	173
Negaunee	1977	60	12,466	41	11,555	1,165	275	341
	1982	47	17,616	35	17,114	1,691	369	308
New Baltimore	1977	61	21,877	41	20,969	2,221	492	311
	1982	64	36,308	42	35,237	3,521	767	404
New Buffalo	1977	64	11,172	39	10,522	1,455	354	297
	1982	47	10,589	31	9,938	1,417	316	199
Niles	1977	188	65,340	130	63,481	7,916	1,892	1,276
	1982	219	93,157	151	90,894	10,953	2,525	1,390
North Muskegon	1977	43	19,094	31	18,905	2,199	516	270
	1982	60	26,107	39	25,540	2,838	636	373
Northville	1977	109	42,915	79	42,122	4,738	1,145	883
	1982	118	57,327	73	56,365	6,257	1,739	797
Norton Shores	1977	126	107,891	96	106,928	15,140	2,730	1,664
	1982	143	83,657	113	82,858	10,246	2,230	1,318
Norway	1977	43	10,153	32	9,824	830	190	123
	1982	28	10,306	21	9,740	976	228	128
Novi	1977	139	72,295	102	69,995	8,089	861	509
	1982	273	264,890	216	263,009	30,530	7,094	3,820
Oak Park	1977	360	158,917	209	153,171	20,279	4,810	2,492
	1982	290	176,160	189	172,616	20,200	5,021	1,845

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	employees[a] 12 March
Otsego	1977	54	12,158	33	11,626	1,343	298	229
	1982	54	16,707	35	16,216	1,913	447	246
Owosso	1977	198	61,294	154	60,023	7,307	1,810	1,228
	1982	214	96,286	156	94,372	10,503	2,335	1,412
Oxford	1977	52	12,726	36	11,919	1,424	295	244
	1982	59	17,987	43	17,478	2,032	482	266
Paw Paw	1977	84	30,094	60	29,596	2,858	600	453
	1982	73	43,422	51	42,342	4,409	1,017	461
Petoskey	1977	228	98,791	191	97,094	11,604	2,569	1,675
	1982	212	111,042	179	109,466	12,861	2,867	1,430
Plainwell	1977	84	25,839	51	23,767	2,310	583	301
	1982	90	44,871	62	44,077	4,415	1,029	549
Pleasant Ridge	1977	16	3,281	11	3,103	378	107	98
	1982	19	4,492	10	4,338	429	101	61
Plymouth	1977	184	86,803	132	84,529	9,042	2,002	1,136
	1982	244	145,262	163	142,664	15,204	3,508	1,598
Pontiac	1977	439	305,080	371	301,297	35,947	8,351	4,468
	1982	453	380,765	364	376,340	41,350	9,929	4,330
Portage	1977	294	176,371	225	173,659	24,818	4,911	3,212
	1982	419	321,575	320	317,601	35,858	8,203	4,394
Port Huron	1977	407	178,775	310	175,282	22,760	5,377	3,480
	1982	425	243,688	313	237,728	30,529	7,208	3,667
Portland	1977	57	17,586	33	16,704	2,193	390	328
	1982	58	24,159	26	22,860	2,313	521	331
Richmond	1977	77	38,256	51	37,113	2,953	780	410
	1982	61	44,840	47	43,716	4,622	1,128	556
River Rouge	1977	84	19,231	65	18,345	1,912	448	325
	1982	79	18,982	59	17,181	1,993	487	303
Riverview	1977	105	42,339	75	41,495	5,882	1,245	982
	1982	78	49,799	63	49,103	5,702	1,440	807
Rochester	1977	179	83,245	140	81,555	10,030	2,480	1,783
	1982	196	84,883	141	82,911	12,305	2,958	1,550

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Rockwood	1977	23	13,400	18	13,163	1,008	254	114
	1982	16	17,010	11	16,481	1,325	316	103
Rogers City	1977	75	19,836	56	18,349	1,707	404	320
	1982	56	21,930	42	21,067	2,188	512	327
Romeo	1977	67	16,744	42	15,524	1,316	290	237
	1982	81	37,205	54	36,389	2,901	549	320
Romulus	1977	144	57,468	97	55,019	10,018	2,383	1,407
	1982	113	72,962	78	71,140	10,549	2,547	1,370
Rossevelt Park	1977	33	22,888	25	22,623	3,332	785	614
	1982	30	23,066	27	22,876	3,734	875	577
Roseville	1977	370	303,646	296	299,605	38,945	9,020	5,505
	1982	413	422,426	341	419,091	47,567	11,253	5,234
Royal Oak	1977	578	338,555	416	330,972	40,958	9,668	5,308
	1982	475	372,468	334	366,824	41,840	9,971	4,112
Saginaw	1977	645	254,217	484	247,136	32,916	7,747	4,642
	1982	541	257,618	423	252,199	31,997	7,261	3,538
St. Clair	1977	66	24,574	42	23,325	3,036	651	400
	1982	86	41,904	59	40,972	5,216	1,167	569
St. Clair Shores	1977	614	245,257	422	237,914	28,867	6,714	4,077
	1982	478	264,476	339	258,518	31,510	7,180	3,563
St. Ignace	1977	70	15,416	56	14,923	1,760	362	227
	1982	62	17,224	52	17,087	1,861	360	213
St. Johns	1977	111	57,977	81	57,067	6,108	1,472	882
	1982	104	64,337	74	63,592	7,145	1,764	794
St. Joseph	1977	165	74,047	126	72,308	9,858	2,325	1,392
	1982	194	55,156	132	53,515	7,376	1,661	1,016
St. Louis	1977	66	12,111	42	11,340	1,329	298	236
	1982	37	13,677	22	12,772	1,193	272	186
Saline	1977	66	23,669	43	23,001	2,710	605	433
	1982	57	31,468	43	31,062	3,686	808	442
Sault Ste. Marie	1977	215	72,234	165	69,108	8,065	1,841	1,163
	1982	181	77,259	146	75,485	8,991	2,010	1,152

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Southfield	1977	983	778,169	731	767,267	97,704	23,801	14,315
	1982	1,169	971,961	887	961,156	118,455	27,845	12,949
Southgate	1977	231	281,200	200	279,302	29,523	7,117	3,538
	1982	242	285,194	194	283,155	29,466	6,995	2,889
South Haven	1977	119	48,481	87	47,567	5,918	1,361	721
	1982	98	60,272	81	59,755	6,277	1,421	725
South Lyon	1977	57	18,437	31	17,256	1,990	413	285
	1982	51	17,251	33	15,973	1,733	370	280
Sparta	1977	55	14,326	38	13,849	1,159	286	196
	1982	46	17,752	31	17,165	1,733	445	236
Springfield	1977	33	8,970	24	8,841	1,358	332	230
	1982	39	21,722	32	21,497	2,233	568	190
Springlake	1977	54	9,354	28	8,138	815	190	173
	1982	57	17,883	34	16,766	1,439	272	190
Sterling Heights	1977	423	373,721	324	370,143	41,061	9,231	5,453
	1982	574	666,363	425	662,260	68,010	15,675	7,728
Sturgis	1977	151	61,069	108	59,274	6,444	1,465	945
	1982	161	94,639	121	92,881	9,121	2,074	1,093
Swartz Creek	1977	43	8,557	21	7,830	967	196	161
	1982	65	22,952	27	21,665	2,015	465	219
Taylor	1977	425	345,266	346	341,901	39,503	8,691	5,232
	1982	462	450,187	359	447,090	49,742	11,445	5,737
Tecumseh	1977	102	37,433	78	36,140	3,957	852	557
	1982	108	44,969	77	43,804	5,202	1,145	737
Three Rivers	1977	136	44,717	104	43,872	4,745	1,169	641
	1982	120	59,809	89	58,688	5,907	1,436	685
Traverse City	1977	429	156,105	319	151,997	22,089	5,245	3,169
	1982	522	293,574	381	287,850	34,831	7,959	4,038
Trenton	1977	150	65,397	112	64,132	6,975	1,569	1,093
	1982	143	55,299	96	53,816	6,140	1,532	807
Troy	1977	486	568,439	367	562,762	67,574	15,711	8,427
	1982	664	780,303	498	773,247	90,859	21,323	9,432

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
		Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Utica	1977	115	46,196	90	44,976	5,306	1,214	769
	1982	107	54,846	63	53,756	5,097	1,241	640
Vassar	1977	75	23,534	48	22,528	2,080	477	309
	1982	58	31,262	34	30,018	2,438	573	257
Wakefield	1977	34	4,210	22	3,861	402	104	101
	1982	29	5,324	23	5,067	410	98	88
Walker	1977	125	145,496	97	144,086	20,006	3,686	2,209
	1982	116	172,728	85	171,799	17,757	4,517	2,058
Walled Lake	1977	78	42,278	61	41,256	4,676	1,131	833
	1982	66	40,454	46	39,008	4,376	1,061	567
Warren	1977	961	702,221	719	689,662	82,384	19,267	11,078
	1982	943	885,748	730	873,521	99,984	23,058	11,216
Wayne	1977	168	133,202	140	131,683	13,109	3,206	1,520
	1982	120	83,683	93	81,774	9,331	2,161	999
Westland	1977	434	340,877	323	335,955	37,549	9,022	5,299
	1982	446	418,500	344	413,111	47,362	11,050	5,430
Whitehall	1977	62	15,883	42	15,091	1,723	388	306
	1982	54	23,525	40	23,014	2,244	473	306
Williamston	1977	49	9,645	31	9,265	888	212	144
	1982	54	17,872	26	17,469	2,186	480	287
Wixom	1977	22	6,715	15	6,231	643	171	89
	1982	18	6,717	13	6,423	460	113	94
Woodhaven	1977	43	61,906	37	61,741	7,193	1,589	1,007
	1982	61	74,959	49	74,426	9,531	2,121	1,060
Wolverine Lake	1977	11	978	3	566	39	9	9
	1982	11	(D)	(D)	(D)	(D)	(D)	(D)
Wyandotte	1977	269	70,263	188	66,205	8,634	2,135	1,326
	1982	262	109,038	187	104,492	11,388	2,621	1,367
Wyoming	1977	461	269,479	343	263,515	35,105	8,073	5,373
	1982	440	372,821	321	368,619	49,036	11,531	5,556

TABLE XXI-5. SELECTED DATA FOR RETAIL TRADE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		All establishments		Establishments with payroll				
						Payroll ($1,000)		Paid employees[a] 12 March
City	Year	Number	Sales ($1,000)	Number	Sales ($1,000)	Entire year	First quarter	
Ypsilanti	1977	206	70,186	147	67,494	9,493	2,308	1,650
	1982	184	90,207	141	88,140	11,927	2,838	1,423
Zeeland	1977	64	19,751	43	18,318	2,169	493	429
	1982	82	32,117	49	30,104	3,592	893	604

SOURCE: Bureau of the Census, *1977 Census of Retail Trade, Area Series, Michigan* (Washington, D.C.: 1979), RC77-A-23, Table 7; and Bureau of the Census, *1982 Census of Retail Trade Geographic Area Series Michigan* (Washington, D.C.: 1984), RC82-A-23, Table 8.

a. Paid employees for pay period including March 12.
b. No data available for 1977.
c. No data available for 1982.
(D) Data withheld to avoid disclosing figures for individual companies.

TABLE XXI-7. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN RETAIL TRADE AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

County	Percentage		County	Percentage	
	1974	1984		1974	1984
Crawford	19.18	21.40	St. Clair	11.53	9.48
Clare	22.73	20.76	Barry	9.62	9.43
Roscommon	27.32	20.75	Newaygo	10.94	9.34
Ogemaw	18.67	20.47	Shiawassee	11.95	9.16
Missaukee	17.51	19.83	Macomb	8.30	9.12
Mackinac	19.86	19.79	Clinton	11.85	9.05
Cheboygan	20.17	19.44	Muskegon	8.56	9.03
Gogebic	14.62	16.84	Marquette	9.28	8.98
Lake	16.11	16.48	Tuscola	9.93	8.95
Montmorency	16.71	16.26	Saginaw	9.17	8.90
Alcona	23.16	16.22	Alger	13.04	8.86
Arenac	16.27	15.65	Manistee	9.87	8.84
Oscoda	15.12	15.03	Monroe	11.95	8.67
Schoolcraft	16.46	14.17	Lenawee	10.16	8.59
Gladwin	16.38	13.84	Montcalm	10.99	8.58
Livingston	15.89	13.64	Sanilac	11.24	8.52
Oceana	15.74	13.60	Mason	10.56	8.50
Keweenaw	9.30	13.48	Berrien	9.66	8.43
Leelanau	10.41	13.43	Baraga	10.83	8.40
Emmet	17.31	13.42	Ontonagon	5.04	8.20
Otsego	16.07	12.88	Branch	9.46	8.15
Eaton	15.82	12.50	Ottawa	8.68	8.11
Benzie	13.29	12.43	Kalamazoo	8.79	8.09
Isabella	11.22	12.43	Huron	9.48	7.94
Gratiot	9.38	12.16	Allegan	10.30	7.89
Grand Traverse	15.93	11.89	Menominee	9.40	7.84
Chippewa	9.87	11.58	Iosco	10.76	7.78
Houghton	14.72	11.26	Charlevoix	11.32	7.74
Kent	13.57	11.11	Calhoun	8.83	7.73
Iron	14.08	11.01	Hillsdale	11.18	7.51
St. Joseph	9.88	10.73	Wayne	8.82	7.23
Oakland	11.52	10.71	Presque Isle	9.39	7.18
Bay	11.55	10.52	Osceola	9.03	7.07
Mecosta	10.90	10.29	Ingham	8.73	6.95
Van Buren	10.72	10.10	Luce	9.66	6.78
Wexford	12.31	10.02	Genesee	8.23	6.57
Dickinson	10.66	9.83	Kalkaska	16.91	6.54
Antrim	11.21	9.83	Washtenaw	8.20	5.86
Delta	14.11	9.79	Cass	9.98	5.10
Jackson	9.52	9.69	Midland	5.26	5.06
Lapeer	11.69	9.61			
Alpena	12.26	9.59	Michigan	9.70	8.56
Ionia	10.98	9.49	United States	10.37	9.57

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE XXI-8. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN RETAIL TRADE: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Gratiot	104	21	Montcalm	68	7
Crawford	142	19	Shiawassee	36	7
St. Joseph	133	18	Mason	50	6
Missaukee	107	16	Midland	95	6
Marquette	92	15	Oceana	44	6
Lenawee	42	15	Calhoun	55	6
Lake	61	15	Sanilac	18	6
Ottawa	161	14	Allegan	70	6
Luce	52	13	Berrien	39	6
Oakland	149	13	Gladwin	79	6
Mackinac	105	13	Mecosta	93	6
Lapeer	70	12	Wayne	30	6
Clinton	65	12	Kalamazoo	112	6
Presque Isle	36	12	Bay	57	5
Kent	95	12	Ingham	96	5
Muskegon	99	12	Cass	9	5
Montmorency	52	11	Alcona	56	5
Alpena	42	11	Cheboygan	90	5
Macomb	130	11	Osceola	50	4
Menominee	81	10	Baraga	28	4
Barry	87	10	Monroe	45	4
Dickinson	81	10	Iosco	34	4
Van Buren	62	10	Emmet	67	4
Wexford	97	9	Houghton	59	4
Ionia	73	9	Chippewa	45	3
Grand Traverse	118	9	Leelanau	78	3
Clare	99	9	Schoolcraft	72	2
St. Clair	72	8	Oscoda	55	2
Branch	63	8	Ogemaw	140	2
Saginaw	89	8	Delta	33	2
Livingston	135	8	Ontonagon	25	2
Hillsdale	36	8	Gogebic	69	1
Washtenaw	89	8	Kalkaska	50	1
Eaton	66	8	Antrim	52	1
Isabella	145	7	Alger	27	1
Newaygo	81	7	Charlevoix	40	1
Huron	35	7	Otsego	127	1
Genesee	82	7	Manistee	85	0
Benzie	97	7	Arenac	69	-1
Jackson	71	7	Keweenaw	37	-12
Roscommon	72	7			
Iron	51	7	Michigan	75	9
Tuscola	37	7	United States	120	10

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

XXII. FINANCE, INSURANCE, AND REAL ESTATE

Information on the number of banking offices in the state and operating statistics of insured banks are available from the Federal Deposit Insurance Corporation. Data on bank activity throughout the state are contained in the publications and releases of the Board of Governors of the Federal Reserve System. The Board of Governors of the Federal Reserve System releases Bank Debits and Deposit Turnover monthly, listing debits for the Federal Reserve districts and the principal cities. Detailed information on bank debits in Michigan also is available in the releases of the Federal Reserve banks of Chicago and Minneapolis.

Total time and demand deposits by counties and states are available in the F.D.I.C. publication Summary of Deposits in All Commercial and Mutual Savings Banks. Information on bank balance sheet items and operations can be obtained in two other F.D.I.C. publications Bank Operating Statistics and Assets and Liabilities--Commercial and Mutual Savings.

Detailed data about the operations of savings and loan associations are presented in the annual Asset and Liability Trends, published by the Federal Home Loan Bank Board. Small loan company and state-chartered credit union operations in Michigan are covered in Analysis and Recapitulation of Reports of Regulatory Loan Licenses and Abstracts of Reports of Credit Unions, respectively, of the Financial Institutions Bureau, Michigan Department of Commerce. Similar data on credit unions chartered by the federal government are given in the Annual Report published by the Bureau of Federal Credit Unions. Information on production credit associations is available in the Annual Report of the U.S. Farm Credit Administration.

The basic source of information about insurance operations in Michigan is the Annual Report of the Michigan Department of Insurance. This includes the home office address and a summary of financial conditions for all companies licensed to do business in Michigan. The annual Life Insurance Fact Book of the Institute of Life Insurance presents data about the amount of insurance in force, benefit payments, premium collections, and so forth, for the United States, as well as a good deal of information on a state basis.

Statistics on the number of certified public accountants and real estate brokers and salesman licensed in each county are tabulated by the Michigan Department of Regulation, which licenses these occupations. Data on health insurance are included in Chapter III.

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TABLE XXII-1. AVERAGE WAGE AND SALARY EMPLOYMENT AND WEEKLY HOURS AND EARNINGS OF SALES WORKERS IN MICHIGAN AND THE UNITED STATES FINANCE INSURANCE AND REAL ESTATE ESTABLISHMENTS: 1956-1985

	Michigan[a]	United States			
	Employment	Employment	Weekly		Hourly
Year	(000)	(000)	Hours	Earnings	earnings
1956	77.8	2,389	36.9	65.68	1.78
1957	79.9	2,438	36.7	67.53	1.84
1958	80.6	2,481	37.1	70.12	1.89
1959	82.4	2,549	37.3	72.74	1.95
1960	84.9	2,629	37.2	75.14	2.02
1961	87.0	2,688	36.9	77.12	2.09
1962	88.5	2,754	37.3	80.94	2.17
1963	90.3	2,830	37.5	84.38	2.25
1964	92.7	3,911	37.3	85.79	2.30
1965	96.3	2,977	37.2	88.91	2.39
1966	102.3	3,058	37.3	92.13	2.47
1967	107.7	3,185	37.1	95.72	2.58
1968	112.4	3,337	37.0	101.75	2.75
1969	118.4	3,512	37.1	108.70	2.93
1970	119.7	3,645	36.7	112.67	3.07
1971	121.0	3,772	36.6	117.85	3.22
1972	127.7	3,908	36.6	122.98	3.36
1973	130.3	4,046	36.6	129.20	3.53
1974	134.2	4,148	36.5	137.61	3.77
1975	134.0	4,165	36.5	148.19	4.06
1976	136.9	4,271	36.4	155.43	4.27
1977	142.2	4,467	36.4	165.26	4.54
1978	147.4	4,724	36.4	178.00	4.89
1979	154.5	4,975	36.2	190.77	5.27
1980	156.5	5,160	36.2	209.60	5.79
1981	155.0	5,298	36.3	229.05	6.31
1982	151.9	5,341	36.2	245.44	6.78
1983	151.4	5,468	36.2	263.90	7.29
1984	154.0	5,689	36.5	278.50	7.63
1985	161.0	5,953	36.4	289.02	7.94

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, *Employment and Earnings*, (Washington, D.C.: monthly), March 1985, Tables B-1 and C-1; and *Supplement to Employment and Earnings* (Washington, D.C.: June 1985).

a. Hours and earnings data are not available for Michigan.

TABLE XXII-3. YEAR-END ASSETS OF COMMERCIAL BANKS, SAVINGS AND LOAN ASSOCIATIONS, AND CREDIT UNIONS IN MICHIGAN: 1962-1985

(In millions of dollars)

Year	Commercial[a] banks	Savings & loan associations	Credit[b] unions
1962	11,490	2,356	622
1963	12,358	2,705	709
1964	13,915	3,093	831
1965	15,457	3,341	954
1966	16,977	3,424	1,053
1967	19,108	3,719	1,164
1968	21,190	3,979	1,306
1969	22,684	4,288	1,457
1970	25,133	4,830	1,605
1971	27,393	5,760	1,815
1972	30,024	6,842	2,047
1973	33,223	7,692	2,227
1974	34,611	8,478	2,388
1975	35,938	9,753	2,698
1976	38,091	11,365	2,929
1977	43,189	13,257	3,491
1978	48,165	15,255	3,971
1979	50,218	16,925	4,150
1980	53,392	18,426	4,043
1981	56,504	18,556	2,594[c]
1982	58,987	20,064	2,932[c]
1983	63,965	24,706	3,309[c]
1984	67,807	27,268	3,729[c]
1985	72,782	31,127	4,496[c]

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, special release.

a. Insured and uninsured

b. State and Federal chartered

c. State chartered credit unions only.

TABLE XXI-6. ESTIMATED ANNUAL SALES OF RETAIL STORES IN THE DETROIT STANDARD METROPOLITAN STATISTICAL AREA, THE STATE OF MICHIGAN, AND THE UNITED STATES: 1969-1985

(millions of dollars)

Year	Detroit Standard Metropolitan Statistical Area		Michigan		United States	
	Nondurable goods	Total	Nondurable goods	Total	Nondurable goods	Total
1969	5,511	8,158	10,747	16,161	284,722	351,633
1970	5,679	8,095	11,154	16,317	261,239	375,633
1971	5,874	8,829	11,962	18,342	277,036	408,850
1972	6,164	9,159	12,934	19,792	300,642	449,069
1973	6,821	10,159	14,554	22,181	336,626	509,538
1974	7,324	10,461	15,604	22,775	371,571	540,988
1975	7,607	10,981	16,357	23,964	405,180	588,146
1976	8,234	12,444	18,067	27,034	439,570	657,375
1977	n.a.	n.a.	n.a.	29,520	476,574	725,212
1978	12,099	17,141	23,087	34,322	526,356	806,773
1979	13,426	18,944	25,916	37,759	592,763	899,116
1980	14,641	19,979	27,795	38,532	660,588	959,561
1981	15,115	20,958	29,126	40,516	716,259	1,041,327
1982	13,307	19,372	27,293	39,289	735,353	1,072,065
1983	14,375	21,479	28,825	42,803	777,805	1,174,298
1984	15,280	23,415	30,321	46,878	827,264	1,293,062
1985	15,974	25,567	32,260	51,910	859,734	1,373,941

SOURCE: U.S. Bureau of the Census, Revised Monthly Retail Sales and Inventories: January 1976 through December 1985, Current Business Reports, (Washington, D.C.: 1986), BR-13-858, Tables 1, 5 & 6.

NOTE: Figures are not strictly comparable over time because of changes in the sample of stores used for the estimate and revisions in the estimating procedure itself.

n.a.: not available.

TABLE XXII-2. NUMBER OF BANKS, SAVINGS AND LOAN AND CREDIT UNION OFFICES AND BRANCHES IN MICHIGAN, YEAR END: 1970-1985

	Commercial banks				Savings and loan		Credit unions[b]		
Year	State banks	State banks' branches	National banks	National banks' branches	Number of associations	Total offices[a]	State chartered	Federally chartered	Total
1970	230	649	103	n.a.	68	248	787	372	1,159
1971	227	667	104	n.a.	65	390	754	364	1,118
1972	226	707	106	n.a.	65	307	724	368	1,092
1973	229	742	111	n.a.	65	326	706	363	1,069
1974	230	790	117	n.a.	66	360	679	365	1,044
1975	231	822	120	n.a.	67	400	656	367	1,023
1976	238	847	122	n.a.	66	434	630	358	988
1977	239	875	123	764	66	478	611	352	963
1978	240	929	125	815	65	526	597	350	937
1979	247	1,028	123	907	65	563	584	345	929
1980	250	1,095	126	971	63	608	572	340	924
1981	250	1,138	126	997	59	636	560	309	869
1982	251	1,156	125	1,009	53	635	531	292	823
1983	248	1,140	124	981	52	651	516	278	794
1984	248	1,142	119	972	53	643	500	264	764
1985	241	1,137	119	934	52	649	480	250	730

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, special release.

a. Main offices plus branches.
b. Branch office data are not available.

n.a.: Not available.

TABLE XXII-6. NUMBER OF BANKS OPERATING IN AND BANKING OFFICES LOCATED IN MICHGAN, BY COUNTY: 30 JUNE 1983

County	Banks	Banking offices	County	Banks	Banking offices
Alcona	2	3	Lake	1	2
Alger	3	6	Lapeer	8	22
Allegan	10	25	Leelanau	3	7
Alpena	3	13	Lenawee	12	34
Antrim	7	11	Livingston	8	28
Arenac	5	7	Luce	2	2
Baraga	2	2	Mackinac	3	7
Barry	6	7	Macomb	27	153
Bay	10	43	Manistee	2	11
Benzie	5	6	Marquette	7	27
Berrien	10	54	Mason	4	9
Branch	5	17	Mecosta	4	14
Calhoun	10	37	Menominee	4	10
Cass	6	14	Midland	5	21
Charlevoix	6	13	Missaukee	3	4
Cheboygan	2	10	Monroe	8	32
Chippewa	4	14	Montcalm	9	22
Clare	4	9	Montmorency	2	3
Clinton	5	16	Muskegon	8	35
Crawford	3	6	Newaygo	7	10
Delta	6	14	Oakland	41	276
Dickinson	6	12	Oceana	4	7
Eaton	10	23	Ogemaw	7	8
Emmet	6	17	Ontonagon	3	5
Genesee	10	98	Osceola	6	7
Gladwin	3	6	Oscoda	1	2
Gogebic	4	6	Otsego	2	7
Grand Traverse	5	30	Ottawa	13	53
Gratiot	5	14	Presque Isle	4	4
Hillsdale	6	15	Roscommon	3	8
Houghton	5	14	Saginaw	10	59
Huron	10	21	St. Clair	8	39
Ingham	14	65	St. Joseph	8	25
Ionia	7	17	Sanilac	9	19
Iosco	3	11	Schoolcraft	2	4
Iron	4	8	Shiawassee	7	23
Isabella	8	20	Tuscola	13	23
Jackson	7	50	Van Buren	9	18
Kalamazoo	8	59	Washtenaw	13	75
Kalkaska	3	4	Wayne	29	418
Kent	22	144	Wexford	3	13
Keweenaw	1	1	TOTAL	374	2,508

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, Financial Institutions Sorted by County, June 30, 1983.

TABLE XXII-7. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN FINANCE, INSURANCE, AND REAL ESTATE AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percentage	
County	1974	1984	County	1974	1984
Eaton	2.50	8.57	Manistee	2.35	2.93
Livingston	6.78	6.48	Saginaw	2.82	2.93
Calhoun	(D)	5.94	Delta	3.03	2.91
Houghton	6.41	5.68	Benzie	2.32	2.83
Gladwin	6.68	5.57	Mason	2.41	2.75
Oakland	3.74	5.51	Alger	2.48	2.75
Missaukee	4.41	5.14	Schoolcraft	2.96	2.73
Montmorency	3.54	5.13	Shiawassee	2.19	2.68
Arenac	2.57	5.11	Cass	2.03	2.62
Wayne	4.76	5.05	Lapeer	2.42	2.59
Roscommon	4.77	4.80	Ionia	2.30	2.57
Ingham	4.40	4.79	Marquette	2.05	2.56
Grand Traverse	3.97	4.72	Clinton	2.46	2.48
Barry	(D)	4.61	Iosco	1.65	2.42
Kent	3.76	4.28	Otsego	2.22	2.42
Gogebic	2.70	4.25	Monroe	1.92	2.41
Iron	3.20	4.21	Van Buren	1.80	2.37
Lake	3.79	4.11	Tuscola	1.16	2.37
Clare	3.72	3.70	Hillsdale	(D)	2.32
Emmet	2.59	3.59	Macomb	1.36	2.29
Sanilac	1.94	3.43	Baraga	(D)	2.26
Bay	2.11	3.43	Washtenaw	2.04	2.25
Berrien	2.26	3.41	Ottawa	1.92	2.24
Wexford	2.87	3.39	Mackinac	1.50	2.22
Chippewa	1.99	3.38	Genesee	1.98	2.13
Crawford	2.86	3.35	Muskegon	1.92	2.06
Newaygo	2.74	3.29	Montcalm	1.69	2.01
Kalamazoo	2.65	3.23	St. Joseph	2.27	1.84
Menominee	1.74	3.23	Ogemaw	1.60	1.82
St. Clair	2.85	3.21	Gratiot	1.94	1.81
Huron	2.36	3.16	Presque Isle	1.24	1.76
Cheboygan	3.65	3.16	Midland	1.09	1.73
Jackson	2.07	3.14	Osceola	1.30	1.38
Charlevoix	2.35	3.13	Kalkaska	(D)	1.25
Ontonagon	1.18	3.13	Allegan	0.88	1.24
Mecosta	2.70	3.11	Luce	1.47	1.21
Oscoda	(D)	3.09	Leelanau	(D)	1.20
Dickinson	1.56	3.02	Alcona	(D)	0.44
Isabella	1.71	2.98	Alpena	(D)	(D)
Branch	2.32	2.97	Keweenaw	(D)	(D)
Antrim	1.99	2.96			
Lenawee	1.86	2.95	Michigan	3.49	4.03
Oceana	2.01	2.93	United States	5.04	6.45

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XXII-8. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN FINANCE, INSURANCE, AND REAL ESTATE: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Antrim	158	18	Newaygo	155	6
Arenac	248	16	Marquette	148	6
Baraga	(D)	16	Ingham	169	5
Ottawa	226	15	Muskegon	103	5
Schoolcraft	84	14	Ontonagon	103	5
Midland	224	14	Montcalm	155	5
Macomb	253	14	Shiawassee	117	5
Wexford	186	14	Luce	78	5
Oscoda	(D)	12	Hillsdale	(D)	4
Berrien	140	12	Leelanau	(D)	4
Bay	181	11	Manistee	157	4
Kalamazoo	182	11	Emmet	198	4
Van Buren	127	11	Mackinac	204	4
Huron	116	11	Ogemaw	149	4
Gladwin	76	11	Tuscola	210	4
Monroe	152	10	Osceola	103	4
Lapeer	122	10	St. Clair	135	4
Menominee	303	9	Clinton	118	4
Charlevoix	174	9	Roscommon	127	3
Houghton	84	9	Calhoun	(D)	3
Genesee	145	9	Ionia	123	3
Benzie	157	9	Cheboygan	71	3
Crawford	153	9	Mason	113	2
Lenawee	167	8	Alcona	(D)	2
Washtenaw	190	8	Grand Traverse	247	2
Clare	117	8	Gogebic	131	1
Isabella	286	8	Presque Isle	153	1
St. Joseph	73	8	Mecosta	135	1
Iosco	172	8	Missaukee	113	1
Kent	170	8	Cass	176	0
Iron	154	8	Saginaw	101	-4
Oakland	294	8	Otsego	210	-4
Jackson	155	8	Kalkaska	(D)	-5
Wayne	68	7	Lake	70	-10
Delta	84	7	Alger	107	-10
Barry	(D)	7	Montmorency	126	-11
Oceana	143	7	Gratiot	48	-25
Eaton	623	7	Alpena	(D)	(D)
Allegan	212	7	Dickinson	279	(D)
Sanilac	174	7	Keweenaw	(D)	(D)
Chippewa	110	7			
Branch	143	7	Michigan	129	7
Livingston	162	7	United States	206	12

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

(D) Witheld to avoid disclosing data for individual companies.

TABLE XXII-4. ASSETS OF COMMERCIAL BANKS IN MICHIGAN INSURED BY THE FEDERAL DEPOSIT INSURANCE CORPORATION: 31 DECEMBER 1984 AND 1985

(In thousands of dollars)

	248 Banks 1,142 Branches December 31, 1984	241 Banks 1,140 Branches December 31, 1985
Michigan Chartered		
Cash and balances due from depository institutions	$ 5,485,129	$ 5,009,197
Noninterest-bearing balances and currency and coin	1,688,659	1,802,299
Interest-bearing balances	3,796,470	3,206,898
Securities	7,294,628	8,055,868
Federal funds sold and securities purchased under agreements to resell	980,042	1,237,524
Total loans and leases (excluding unearned income)	17,681,323	19,166,077
Less: Allowance for loan and lease losses	189,783	227,084
Net loans and leases	17,491,540	18,938,983
Assets held in trading accounts	38,619	31,793
Premises and fixed assets (including capitalized leases)	486,475	493,858
Other real estate owned	86,337	87,944
Investments in unconsolidated subsidiaries and associated companies	212	650
Customers' liability to banks on acceptances outstanding	208,995	42,708
Intangible assets	4,725	4,050
Other assets	600,867	539,935
TOTAL ASSETS	$32,677,569	$34,442,510

TABLE XXII-4. ASSETS OF COMMERCIAL BANKS IN MICHIGAN INSURED BY THE FEDERAL DEPOSIT INSURANCE CORPORATION: 31 DECEMBER 1984 AND 1985 (cont.)

(In thousands of dollars)

	119 Banks December 31, 1984	119 Banks December 31, 1985
National Chartered		
Cash and balances due from depository institutions	$ 5,393,421	$ 5,920,777
Noninterest-bearing balances and currency and coin	2,409,908	3,138,241
Interest-bearing balances	2,983,513	2,782,536
Securities	6,657,405	7,189,919
Federal funds sold and securities purchased under agreements to resell	1,290,767	1,843,628
Total loans and leases (excluding unearned income)	20,420,124	22,005,022
Less: Allowance for loan and lease losses	238,365	279,576
Net loans and leases	20,181,759	21,725,446
Assets held in trading accounts	86,533	197,688
Premises and fixed assets (including capitalized leases)	462,399	455,011
Other real estate owned	99,969	95,336
Investments in unconsolidated subsidiaries and associated companies	14,298	14,879
Customers' liability to banks on acceptances outstanding	283,286	295,382
Intangible assets	1,766	7,049
Other assets	657,645	594,258
TOTAL ASSETS	$35,129,248	$38,339,373

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, Annual Report (Lansing, Michigan: annual publication).

TABLE XXII-5. LIABILITIES AND EQUITY CAPITAL OF ALL COMMERCIAL BANKS IN MICHIGAN: 31 DECEMBER 1984 AND 1985

(In thousands of dollars)

	248 Banks 1,142 Branches December 31, 1984	241 Banks 1,140 Branches December 31, 1985
Michigan Chartered		
Total deposits	$27,999,825[a]	$29,714,534[a]
Noninterest-bearing	4,308,228	4,725,927
Interest-bearing	23,691,597	24,988,607
Federal funds purchased and securities sold under agreements to repurchase	1,455,516	1,656,892
Demand notes issued to the U.S. Treasury	214,689	181,438
Other borrowed money	61,978	60,390
Mortgage indebtedness and obligations under capitalized leases	19,721	16,072
Banks' liability on acceptances executed and outstanding	209,022	42,711
Notes and debentures subordinated to deposits	70,899	93,134
Other liabilities	527,765	414,034
TOTAL LIABILITIES	$30,559,435	$32,179,205
EQUITY CAPITAL		
Perpetual preferred stock	$ 1,790	$ 2,852
Common stock	366,139	375,683
Surplus	867,916	917,104
Undivided profits and capital reserves	882,289	967,666
TOTAL EQUITY CAPITAL	$ 2,118,134	$ 2,263,305
TOTAL LIABILITIES AND EQUITY CAPITAL	$32,677,569	$34,442,510
[a] Includes deposits of State money - Michigan	$ 68,883	$ 111,328

TABLE XXII-5. LIABILITIES AND EQUITY CAPITAL OF ALL COMMERCIAL BANKS IN MICHIGAN: 31 DECEMBER 1984 AND 1985 (cont.)

	(In thousands of dollars)	
	119 Banks December 31, 1984	119 Banks December 31, 1985
National Chartered		
Total deposits	$28,064,393	$30,306,355
Noninterest-bearing	6,053,498	6,948,435
Interest-bearing	22,010,895	23,437,920
Federal funds purchased and securities sold under agreements to repurchase	3,340,395	3,617,186
Demand notes issued to the U.S. Treasury	354,867	573,207
Other borrowed money	220,215	314,351
Mortgage indebtedness and obligations under capitalized leases	39,586	33,963
Banks' liability on acceptances executed and outstanding	283,286	325,807
Notes and debentures subordinated to deposits	149,673	141,461
Other liabilities	568,550	660,723
TOTAL LIABILITIES	$33,020,965	$36,053,133
EQUITY CAPITAL		
Perpetual preferred stock	$ 720	$ 720
Common stock	359,282	359,560
Surplus	656,611	670,142
Undivided profits and capital reserves	1,091,670	1,255,818
TOTAL EQUITY CAPITAL	$ 2,108,283	$ 2,286,240
TOTAL LIABILITIES AND EQUITY CAPITAL	$35,129,248	$38,339,373

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, Annual Report (Lansing, Michigan: annual publication).

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983

	Number of		Amount of deposits in thousands of dollars				
County	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Alcona	2	3	$ 28,776	$ 2,895	$ 11,509	$ 12,245	$ 1,831
Alger	3	6	41,917	3,506	13,292	21,566	3,102
Allegan	10	25	262,227	34,864	95,933	109,994	20,797
Alpena	3	13	173,321	16,934	59,475	77,559	17,300
Antrim	7	11	91,850	9,347	36,037	38,673	7,132
Arenac	5	7	80,353	5,953	27,816	41,195	4,531
Baraga	2	2	38,525	4,218	14,142	17,535	2,354
Barry	6	7	104,845	13,777	46,731	35,689	8,317
Bay	10	43	519,871	56,835	207,604	231,085	20,046
Benzie	5	6	62,010	5,961	22,168	29,152	4,140
Berrien	10	54	689,354	105,419	215,160	303,727	60,801
Branch	5	17	178,260	20,459	56,872	79,879	19,985
Calhoun	10	37	574,308	97,645	198,070	212,315	57,955
Cass	6	14	145,371	17,204	50,273	64,229	12,289
Charlevoix	6	13	115,805	13,175	43,658	48,340	9,684
Cheboygan	2	10	109,467	12,073	39,837	49,429	7,795
Chippewa	4	14	143,497	14,825	45,029	70,627	11,761
Clare	4	9	115,382	8,019	46,104	51,155	9,562
Clinton	5	16	172,010	15,973	56,775	71,042	23,281
Crawford	3	6	42,361	4,931	11,856	19,657	5,570
Delta	6	14	210,867	19,682	65,828	98,005	25,925
Dickinson	6	12	143,678	20,468	51,056	62,797	8,656
Eaton	10	23	284,942	38,157	107,985	109,080	27,660
Emmet	6	17	202,776	21,701	73,270	86,250	19,361
Genesee	10	98	2,159,366	252,549	777,320	947,965	153,541

TABLE XXII-10. NUMBER, ASSETS, FIRST MORTGAGE LOANS, AND SAVINGS CAPITAL EARNINGS OF MICHIGAN INSURED SAVINGS AND LOAN ASSOCIATIONS, 31 DECEMBER: 1958-1984

(In thousands of dollars)

Year	Number of associations	Total assets	Mortgage loans and contracts	Deposit accounts earnings
1958	73	1,434,317	1,115,464	1,281,532
1959	73	1,643,904	1,292,979	1,456,198
1960	73	1,847,920	1,497,207	1,650,087
1961	73	2,054,557	1,650,398	1,830,714
1962	73	2,356,491	1,893,083	2,100,912
1963	72	2,705,419	2,207,693	2,400,485
1964	72	3,093,414	2,557,042	2,773,569
1965	72	3,340,838	2,845,584	2,944,913
1966	71	3,424,042	2,925,831	2,996,855
1967	71	3,719,205	3,174,279	3,285,199
1968	70	3,979,388	3,417,190	3,508,187
1969	70	4,288,115	3,695,319	3,677,844
1970	68	4,830,457	4,094,409	4,205,130
1971	65	5,769,871	4,989,408	5,012,060
1972	65	6,842,107	5,798,053	6,043,166
1973	65	7,691,953	6,596,649	6,765,835
1974	66	8,478,123	7,224,272	7,334,501
1975	67	9,753,163	8,092,134	8,642,753
1976	66	11,364,523	9,379,124	10,180,818
1977	66	13,263,886	11,052,458	11,768,151
1978	65	15,260,981	12,990,752	13,252,982
1979	65	16,924,215	14,645,621	14,447,034
1980	63	18,430,290	15,437,779	15,936,987
1981	59	18,706,000	15,569,000	15,934,000
1982	53	23,506,000	14,790,000	18,620,000
1983	50	27,513,000	15,199,000	20,853,000
1984	53	27,262,000	14,219,000	19,280,000

SOURCE: Federal Home Loan Bank Board, *Trends in the Savings and Loan Field*, 1957 through 1970 (name was changed in 1971); *Asset and Liability Trends*, 1971 through 1978 (Washington, D.C.: annually); Federal Home Loan Bank Board, *Savings & Home Financing Source Book*, (Washington, D.C.: annually), Table 8.

TABLE XXII-11. TOTAL ASSETS OF SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN, BY COUNTY: 31 DECEMBER 1981, 1982, AND 1983

County and association[a]	Total assets		
	1981	1982	1983
Alpena			
First Federal S&L, Alpena	$ 52,517,738	$ 53,448,816	$ 57,349,055
Barry			
Hastings S&L, Hastings	31,390,835	30,847,708	32,129,992
Bay			
Mutual S&L, Bay City	452,469,426	488,281,368	806,786,105
Berrien			
LaSalle Federal S&L, Buchanan	95,596,131	94,447,910	95,059,975
New Buffalo S&L, New Buffalo	29,726,740	30,490,392	33,201,131
People Savings Assn., St. Joseph	121,092,513	123,119,299	126,960,851
S. Joseph S&L, St. Joseph	118,094,835	115,459,184	136,138,857
Branch			
Branch County Federal S&L, Coldwater	61,507,626	62,207,902	66,365,647
Calhoun			
Homestead S&L, Albion	20,967,777	22,960,729	23,873,173
Marshall S&L, Marshall	21,678,032	22,130,943	25,198,830
Peoples S&L, Battle Creek	97,540,730	96,631,454	98,284,966
Cass			
First Savings Assn., Dowagiac	b	b	b
Eaton			
Eaton Federal S&L, Charlotte	70,080,425	70,263,207	75,683,736
Genesee			
First Federal S&L, Flint	c	c	c
Grand Traverse			
Northwestern S&L, Traverse City	76,653,584	77,676,365	77,563,506
Houghton			
Detroit & Northern S&L, Hancock	917,776,000	1,214,292,216	1,113,494,596
Ingham			
Capitol Federal S&L, Lansing	479,492,746	468,542,828	453,762,555
First State Savings Assn., East Lansing	d	d	d
Union Federal S&L, Lansing	117,425,066	117,621,908	129,575,440
Ionia			
Belding S&L, Belding	e	e	e
Iron			
Iron S&L, Iron River	6,463,575	6,709,792	7,257,790
Jackson			
First Federal S&L, Jackson	106,363,574	105,173,066	i
Security S&L, Jackson	148,521,898	169,960,506	199,211,821
Kalamazoo			
Fidelity Federal S&L, Kalamazoo	166,676,251	165,503,385	182,018,913
First Federal S&L, Kalamazoo	340,289,702	340,846,742	494,935,926

TABLE XXII-11. TOTAL ASSETS OF SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN, BY COUNTY: 31 DECEMBER 1981, 1982, AND 1983 (cont.)

County and association[a]	Total assets		
	1981	1982	1983
Kent			
Grand Rapids Mutual Federal S&L, Grand Rapids	$183,828,252	$181,391,379	$212,871,187
Kentwood S&L, Kentwood	d	d	d
Mutual Home Federal S&L, Grand Rapids	316,574,401	318,453,970	353,570,837
West Side Federal S&L, Grand Rapids	61,826,406	60,557,553	64,331,337
Lenawee			
First Federal S&L, Adrian	156,127,047	159,510,388	168,031,020
Livingston			
First Federal S&L, Howell	135,529,494	130,310,017	140,091,376
Macomb			
Macomb S&L, St. Clair Shores	18,172,602	18,413,666	19,455,422
Central State S&L, Mt. Clemens	9,466,633	36,438,059	72,854,413
Mason			
Ludington Federal S&L, Ludington	29,480,617	29,377,112	31,662,191
Midland			
Wolverine Federal S&L, Midland	67,616,960	69,468,824	84,351,413
Monroe			
Peoples Savings Bank, Monroe	282,136,379	290,472,263	292,882,514
Muskegon			
Muskegon Federal S&L, Muskegon	233,892,955	238,782,151	226,666,739
Oakland			
American Federal S&L, Southfield	867,408,926	f	f
Bloomfield S&L Assoc., Birmingham	--	2,854,537	375,000,000
Empire of America, FSA, Southfield	--	5,868,125,000	5,044,670,000
First Federal Savings Bank & Trust Pontiac	751,787,660	775,806,231	801,975,147
Metropolitan Savings Assn., Farmington Hills	424,227,116	395,920,897	f
Standard Federal S&L, Troy	3,474,520,821	3,775,707,071	4,826,399,000
Surety Federal S&L, Southfield	g	g	g
Ottawa			
Ottawa S&L, Holland	164,152,767	170,275,593	180,888,978
Saginaw			
Family Federal S&L, Saginaw	420,375,021	401,198,255	388,394,134
First S&L, Saginaw/United Federal S&L Assn.	605,578,430	h	h
Landmark S&L, Saginaw	b	b	b
St. Clair			
Citizens Federal S&L, Port Huron	201,835,794	210,859,923	239,990,029
St. Joseph			
Sturgis S&L, Sturgis	47,658,028	44,490,103	45,594,216
Three Rivers S&L, Three Rivers	65,916,776	67,299,667	72,292,602

TABLE XXII-11. TOTAL ASSETS OF SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN, BY COUNTY: 31 DECEMBER 1981, 1982, AND 1983 (cont.)

County and association[a]	Total assets 1981	1982	1983
Washtenaw			
Great Lakes Federal S&L, Ann Arbor[b]	$899,933,324	$1,553,204,559	$1,744,378,762
First Savings Assn., Ypsilanti	22,072,339	22,463,980	30,617,547
USM S&L Association, Ann Arbor	60,965,867	59,314,862	106,444,827
Wayne			
Colonial Federal S&L, Grosse Pte. Woods	208,357,950	194,352,749	193,370,516
Dearborn Federal S&L, Dearborn	140,013,885	134,220,911	140,181,125
Detroit Federal S&L, Detroit	109,113,325	128,830,371	132,625,376
Down River Federal S&L, Taylor	380,452,348	404,052,143	425,359,788
First Dearborn, F.A.,Dearborn	235,901,889	239,121,051	245,483,001
First Federal of MI, Detroit	3,953,244,262	5,228,907,139	7,566,859,836
Guaranty Federal S&L, Taylor	143,621,520	140,075,192	177,556,575
Home Federal S&L, Detroit	21,664,461	21,504,779	21,344,563
Peoples Federal S&L, Detroit	b	b	b

SOURCE: Roster of Members, Federal Home Loan Bank of Indianapolis, (Indianapolis: annually).

NOTE: S&L stands for savings and loan.

a. There are no savings and loan associations headquartered in counties not listed, although there may be branch offices of Michigan's 65 savings and loan associations in these counties.
b. Merged with Standard Federal S&L, Troy.
c. Merged with Family Federal S&L, Saginaw.
d. Merged with First Federal of Michigan, Detroit.
e. Merged with Mutual Home Federal S&L, Grand Rapids.
f. Acquired by Empire of America, FSA.
g. Merged with First Federal Savings Bank and Trust, Pontiac.
h. Merged with Great Lakes Federal S&L, Ann Arbor.
i. Merged with First Federal Savings and Loan Association of Kalamazoo.

TABLE XXII-12. MORTGAGE LOANS MADE BY INSURED SAVINGS AND LOAN ASSOCIATIONS IN MICHIGAN: 1968-1984

(In thousands of dollars)

			Other purposes		
Year	Home construction	Home purchase	Construction and purchase of other real property	Refinancing and all other	Total loans closed
1968	115,835	345,650	46,189	85,213	592,886
1969	113,206	337,682	60,902	80,226	592,016
1970	97,045	362,068	104,978	83,050	647,140
1971	198,218	689,750	137,024	201,379	1,226,371
1972	232,521	825,513	175,907	240,319	1,474,260
1973	281,041	824,915	142,900	170,910	1,419,766
1974	166,197	681,288	129,048	161,327	1,137,860
1975	174,355	924,529	127,557	200,978	1,427,418
1976	257,075	1,381,946	145,396	269,399	2,053,816
1977	392,000	1,997,000	75,000	357,000	2,821,000
1978	471,000	2,341,000	69,000	356,000	3,237,000
1979	459,000	2,081,000	43,000	298,000	2,881,000
1980	228,000	1,079,000	80,000	253,000	1,579,000
1981	104,000	512,000	23,000	162,000	803,000
1982	46,000	302,000	46,000	113,000	506,000
1983	226,000	1,538,000	262,000	349,000	2,374,000
1984	204,000	1,620,000	170,000	251,000	2,323,000

SOURCE: Federal Home Loan Bank Board, Savings and Home Financing Source Book, 1968 through 1983 (Washington, D.C.: annually), Table 15.

TABLE XXII-13. NUMBER OF INSURED SAVINGS AND LOAN ASSOCIATIONS LOCATED AND OPERATING IN MICHIGAN, BY COUNTY: 30 JUNE 1984

County	Associations	Offices	County	Associations	Offices
Alcona	0	0	Lake	0	0
Alger	0	0	Lapeer	3	4
Allegan	5	7	Leelanau	0	0
Alpena	2	3	Lenawee	2	8
Antrim	0	0	Livingston	3	8
Arenac	1	1	Luce	0	0
Baraga	0	0	Mackinac	0	0
Barry	4	4	Macomb	10	47
Bay	3	11	Manistee	1	1
Benzie	0	0	Marquette	1	2
Berrien	5	22	Mason	2	2
Branch	2	4	Mecosta	1	2
Calhoun	5	14	Menominee	1	1
Cass	2	4	Midland	3	7
Charlevoix	2	2	Missaukee	0	0
Cheboygan	1	1	Monroe	3	10
Chippewa	1	1	Montcalm	1	1
Clare	2	2	Montmorency	0	0
Clinton	2	3	Muskegon	4	9
Crawford	1	1	Newaygo	1	1
Delta	1	1	Oakland	8	83
Dickinson	1	1	Oceana	1	1
Eaton	6	11	Ogemaw	1	1
Emmet	2	2	Ontonagon	0	0
Genesee	2	19	Osceola	1	1
Gladwin	1	2	Oscoda	1	1
Gogebic	1	1	Otsego	1	2
Grand Traverse	2	3	Ottawa	5	12
Gratiot	2	3	Presque Isle	1	1
Hillsdale	2	3	Roscommon	1	1
Houghton	1	2	Saginaw	6	21
Huron	2	4	St. Clair	2	10
Ingham	4	16	St. Joseph	5	8
Ionia	3	4	Sanilac	2	3
Iosco	2	2	Schoolcraft	0	0
Iron	1	1	Shiawassee	2	5
Isabella	2	2	Tuscola	3	3
Jackson	4	12	Van Buren	7	8
Kalamazoo	6	23	Washtenaw	6	21
Kalkaska	1	1	Wayne	14	120
Kent	6	32	Wexford	2	2
Keweenaw	0	0			

SOURCES: Federal Home Loan Bank Board, FSLIC Savings and Loan Associations, June 30, 1984, Summary of Savings Accounts by Geographic Area (Washington, D.C.: 1985), Table 5.

TABLE XXII-14. STATE AND FEDERALLY CHARTERED CREDIT UNIONS IN MICHIGAN: 31 DECEMBER 1971-1985

(In thousands of dollars)

Year	Number	Membership[a]	Loans to members	Assets
		State		
1971	754	1,199,578	$ 837,039	$1,248,321
1972	724	1,249,293	913,465	1,402,713
1973	706	1,303,827	1,014,893	1,501,612
1974	679	1,309,000	1,059,746	1,603,246
1975	656	1,374,000	1,179,342	1,820,193
1976	630	1,417,587	1,338,991	1,910,592
1977	611	1,498,260	1,744,297	2,297,283
1978	598	1,587,781	1,994,985	2,600,450
1979	584	1,631,809	1,963,821	2,712,000
1980	572	1,664,065	1,785,952	2,648,387
1981	560	1,721,655	1,842,651	3,002,950
1982	531	1,731,047	1,833,800	3,482,804
1983	516	1,714,766	1,951,603	3,970,002
1984	499	1,770,913	2,365,152	4,470,829
1985	480	1,863,989	2,631,759	5,465,584
		Federal		
1971	364	654,871	461,374	567,274
1972	368	690,887	520,926	644,033
1973	363	737,751	591,280	724,900
1974	365	779,534	632,718	784,452
1975	367	809,200	710,035	877,520
1976	358	874,040	861,099	1,018,098
1977	352	962,801	1,045,652	1,193,701
1978	350	1,099,838	1,216,740	1,371,054
1979	345	1,195,568	1,211,426	1,437,921
1980	331	921,310	1,058,326	1,545,872
1981	303	1,251,615	1,063,466	1,557,838
1982	284	1,263,502	1,023,642	1,715,773
1983	278	1,110,224	1,195,819	2,069,516
1984	260	1,125,490	1,504,712	2,384,663

SOURCE: National Credit Union Administration, Annual Report, (Washington, D.C.: annually), Michigan Department of Commerce, Financial Institutions Bureau, Abstracts of Reports of Credit Unions, 1970 through 1976; and Michigan Department of Commerce, Financial Institutions Bureau, Annual Report, 1977 through 1984 (Lansing: annually).

a. Excludes Central Credit Union of Michigan.

TABLE XXII-15. NUMBER, LOANS OUTSTANDING, AND AVERAGE INVESTED ASSETS OF MICHIGAN SMALL LOAN COMPANIES: 31 DECEMBER 1960-1985

Year	Number of licensees	Loans outstanding	Average invested assets
		(In thousands of dollars)	
1960	548	$177,036	$187,369
1961	584	177,369	188,741
1962	603	181,240	186,000
1963	608	248,001	205,070
1964	634	281,503	271,983
1965	655	304,700	301,897
1966	675	323,872	323,615
1967	677	334,674	338,073
1968	691	345,413	347,609
1969	676	357,969	362,409
1970	626	346,625	365,306
1971	595	332,115	381,379
1972	597	395,160	397,046
1973	593	412,348	433,592
1974	550	391,783	445,643
1975	461	349,687	406,339
1976	415	326,921	356,701
1977	387	332,526	351,956
1978	375	341,166	358,333
1979	350	422,111	401,148
1980	271	342,213	402,574
1981	165	231,386	303,003
1982	104	138,111	195,952
1983	88	100,331	190,994
1984	72	83,605	220,282
1985	70	89,174	274,772

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, *Analysis and Recapitulation of Reports of Regulatory Loan Licensees*, 1974 and 1978 (Lansing: annually), p. 5 (1978); Michigan Department of Commerce, *Financial Institutions Bureau*, Annual Report 1985, p. 149.

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983 (cont.)

County	Number of		Amount of deposits in thousands of dollars				
	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Gladwin	3	6	75,936	7,641	27,052	31,094	9,402
Gogebic	4	6	128,647	11,029	42,679	65,976	8,360
Grand Traverse	5	30	403,682	54,790	147,895	147,792	37,216
Gratiot	5	14	228,582	21,006	80,212	105,604	19,770
Hillsdale	6	15	196,585	19,983	73,798	88,517	12,994
Houghton	5	14	148,715	17,799	55,417	65,783	8,021
Huron	10	21	245,156	17,266	83,992	124,044	18,302
Ingham	14	65	1,427,321	263,763	476,488	566,466	96,399
Ionia	7	17	192,824	18,632	73,042	86,661	13,044
Iosco	3	11	107,242	12,298	37,802	46,040	9,940
Iron	4	8	87,266	5,871	31,457	41,374	7,872
Isabella	8	20	194,817	24,065	78,776	82,006	8,594
Jackson	7	50	569,533	93,206	221,250	205,440	44,119
Kalamazoo	8	59	840,042	164,023	297,739	327,852	37,204
Kalkaska	3	4	43,034	3,702	15,078	16,838	7,033
Kent	22	144	2,605,557	448,559	849,567	1,042,692	211,934
Keweenaw	1	1	6,412	542	2,809	2,973	88
Lake	1	2	15,350	1,759	6,985	2,870	3,635
Lapeer	8	22	261,436	23,848	78,817	114,893	41,130
Leelanau	3	7	58,630	5,813	21,435	24,500	6,753
Lenawee	12	34	483,715	59,104	173,216	211,669	36,326
Livingston	8	28	298,436	40,946	119,097	115,868	19,308
Luce	2	2	27,401	2,847	10,668	9,706	3,975
Mackinac	3	7	49,185	6,162	16,685	20,323	5,469
Macomb	27	153	3,277,208	405,245	1,336,558	1,331,907	184,273

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983 (cont.)

County	Number of		Amount of deposits in thousands of dollars				
	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Manistee	2	11	141,983	12,218	60,786	55,644	12,760
Marquette	7	25	320,982	30,960	108,584	151,932	24,952
Mason	4	9	120,634	13,367	42,462	58,724	5,296
Mecosta	4	14	124,385	13,842	39,681	54,114	15,750
Menominee	4	10	129,099	13,862	41,607	62,678	8,436
Midland	5	21	360,594	41,932	138,202	137,547	38,991
Missaukee	3	4	49,143	4,368	17,103	22,371	4,828
Monroe	8	32	484,320	50,140	189,338	184,577	55,165
Montcalm	9	22	226,057	24,429	77,154	111,840	11,596
Montmorency	2	3	49,530	3,660	16,182	26,512	2,932
Muskegon	8	35	636,378	72,623	265,786	262,863	29,497
Newaygo	7	10	130,683	13,608	50,188	56,298	9,647
Oakland	41	276	6,166,618	1,032,341	2,458,663	2,299,688	325,427
Oceana	4	7	80,985	7,857	30,095	33,160	9,699
Ogemaw	7	8	88,315	7,826	33,819	38,821	7,430
Ontonagon	3	5	44,631	4,612	14,970	19,787	4,988
Osceola	6	7	83,974	7,017	28,519	39,527	8,477
Oscoda	1	2	28,598	2,603	9,970	13,486	2,357
Otsego	2	7	89,774	10,374	32,353	37,395	8,685
Ottawa	13	53	788,670	99,317	270,096	333,640	78,892
Presque Isle	4	4	65,999	4,876	20,579	34,620	5,846
Roscommon	3	8	114,188	9,871	39,308	54,765	9,628
Saginaw	10	59	1,019,104	118,122	387,006	393,633	101,166
St. Clair	8	39	663,661	73,028	249,670	295,082	38,482
St. Joseph	8	25	269,300	30,797	87,759	126,608	22,221

TABLE XXII-9. DEPOSITS IN COMMERCIAL BANKS AND BANKING OFFICES IN MICHIGAN, BY TYPE OF DEPOSIT, BY COUNTY: 30 JUNE 1983 (cont.)

	Number of		Amount of deposits in thousands of dollars				
County	Banks	Banking offices	Total deposits[a]	Demand[b]	Savings[b]	Time[b]	Public funds
Sanilac	9	19	227,566	13,633	80,970	116,120	15,515
Schoolcraft	2	4	57,846	5,100	17,414	26,406	8,522
Shiawassee	7	23	298,297	26,914	111,832	140,760	16,322
Tuscola	13	23	302,141	25,111	103,241	144,916	26,505
Van Buren	9	18	238,870	27,976	87,435	94,629	27,465
Washtenaw	13	75	1,181,513	190,013	468,867	401,680	103,583
Wayne	29	418	14,729,934	3,122,204	4,599,457	5,425,558	873,534
Wexford	3	13	178,565	14,270	65,775	81,794	15,131
TOTAL	374	2,508	48,156,188	7,675,340	16,977,185	19,115,253	3,324,262

SOURCE: Federal Deposit Insurance Corporation, *Banks and Branches June 30, 1983*, Summary of Deposits in all Commercial and Mutual Savings Banks, (Washington, D.C.: annually), Table 8.

a. Includes U.S. government deposits, deposits of foreign governments, certified checks, and other types of deposits not shown separately.

b. Individuals, partnerships, and corporations.

TABLE XXII-16. CONSOLIDATED BALANCE SHEET OF MICHIGAN SMALL LOAN COMPANIES: 31 DECEMBER 1983-1985

(In thousands of dollars)

	1983	1984	1985
ASSETS			
Cash on hand and in bank	654	636	573
Loans receivable (net of reserve for bad debts)	100,331	83,605	89,174
Real estate (less depreciation)	0	0	0
Furniture, fixtures, and equipment (less depreciation)	0	0	0
Deferred charges and prepaid expenses	117	83	103
Other assets	594	1,086	1,617
Total assets used in the Regulatory Loan Business	101,696	85,410	91,467
Other assets not used in the Regulatory Loan Business	89,298	134,872	183,305
TOTAL ASSETS	190,994	220,282	274,772
LIABILITIES AND CAPITAL			
Accounts and notes payable:			
Banks	6,415	4,883	6,096
Due to parent company or affiliate	38,409	32,900	51,716
Other short-term notes and accounts	10,049	9,128	9,078
Bonds and long-term notes	6,325	8,234	8,881
Other liabilities:			
Accrued expenses	468	199	370
Dealer reserves	780	933	798
Other	1,581	436	67
Expense reserves:			
Reserves for licenses and taxes	148	260	334
Other expense reserves	1,296	1,089	323
Reserve for bad debts	2,047	1,242	1,012
Branch office capital	109,699	149,147	184,408
Net worth	648	630	170
Capital stock:			
Preferred	817	763	777
Common	1,733	1,086	1,061
Appropriated surplus or capital reserves	4,377	4,135	4,329
Earned surplus (including undivided profits)	6,202	5,217	5,352
TOTAL LIABILITIES AND CAPITAL	190,994	220,282	274,772

SOURCE: Michigan Department of Commerce, Financial Institutions Bureau, Annual Report, (Lansing: annually).

TABLE XXII-17. LIFE INSURANCE IN FORCE IN MICHIGAN AND THE UNITED STATES: 1970-1984

(In millions of dollars)

Year	Ordinary	Group	Industrial	Credit	Total
			Michigan		
1970	28,846	31,076	1,321	4,510	65,753
1971	31,012	34,615	1,340	5,131	72,098
1972	33,314	37,602	1,340	5,847	78,103
1973	35,867	43,569	1,318	5,460	86,214
1974	38,188	49,309	1,287	5,306	94,090
1975	40,093	55,184	1,265	5,494	102,036
1976	43,323	61,538	1,218	5,765	111,844
1977	46,995	67,763	1,187	6,031	121,976
1978	51,528	77,264	1,170	7,375	137,337
1979	56,488	89,358	1,187	7,689	154,722
1980	60,406	95,268	1,169	6,477	163,320
1981	65,020	103,999	1,110	6,744	176,873
1982	70,677	109,778	1,036	6,188	187,679
1983	79,444	112,260	998	5,993	198,695
1984	89,447	117,781	952	7,977	216,157
			United States		
1970	734,730	551,357	38,644	77,392	1,402,123
1971	792,318	589,883	39,202	81,931	1,503,334
1972	853,911	640,689	39,975	93,410	1,627,985
1973	928,192	708,322	40,632	101,154	1,778,300
1974	1,009,038	827,018	39,441	109,623	1,985,120
1975	1,083,421	904,695	39,423	112,032	2,139,571
1976	1,177,672	1,002,647	39,175	123,569	2,343,063
1977	1,289,321	1,115,047	39,045	139,402	2,582,815
1978	1,425,095	1,243,994	38,080	163,081	2,870,250
1979	1,585,878	1,419,418	37,794	179,250	3,222,340
1980	1,760,474	1,579,355	35,994	165,215	3,541,038
1981	1,978,080	1,888,612	34,547	162,356	4,063,595
1982	2,216,388	2,066,361	32,766	161,144	4,476,659
1983	2,544,275	2,219,573	31,354	170,659	4,965,861
1984	2,887,574	2,392,358	30,104	189,951	5,499,987

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, (Washington, D.C.: annually).

TABLE XXII-20. SUMMARY OF MICHIGAN PREMIUMS AND LOSSES OF COMPANIES AND SOCIETIES OPERATING IN MICHIGAN: 1982 AND 1983

(Thousands of dollars)

Type of company	Total direct Michigan premiums[a]		Total direct Michigan losses[b]	
	1982	1983	1982	1983
Property and liability insurance companies				
Funds and pools, Michigan	51,081	44,073	55,433	56,897
Stock companies, Michigan	587,571	623,115	401,431	412,638
Stock companies, foreign	1,842,998	1,775,758	1,429,443	2,236,344
Mutual companies, Michigan	565,321	576,031	445,922	452,623
Mutual companies, foreign	542,653	560,184	400,486	435,314
Alien companies-U.S. branches	11,288	8,767	6,535	4,295
Reciprocal exchanges, Michigan	395,551	408,389	401,599	400,428
Reciprocal exchanges, foreign	80,079	84,981	64,262	80,199
TOTAL	4,076,542	4,081,298	3,191,328	4,078,738
Life insurance companies				
Stock companies				
Life insurance operation, Michigan	208,341	245,778	78,462	91,443
Life insurance operation, foreign	999,282	945,429	546,390	552,791
Casualty operations, Michigan	77,117	88,697	61,363	59,792
Casualty operations, foreign	576,640	593,543	440,602	430,784
Mutual companies				
Life insurance operations, Michigan	30,698	31,229	19,268	20,111
Life insurance operations, foreign	985,019	965,728	952,521	974,561
Casualty operations, Michigan	94,051	118,711	84,320	102,000
Casualty operations, foreign	369,551	341,229	317,904	241,890
Alien companies-U.S. branches				
Life insurance operations	118,631	115,861	89,514	95,312
Casualty operations	37,351	30,697	31,852	21,469
Fraternal benefit societies				
Life insurance operations, Michigan	8,116	8,781	3,080	26,503
Life insurance operations, foreign	56,169	59,954	25,486	30,280
Casualty operations, Michigan	41	60	16	18
Casualty operations, foreign	3,233	4,000	21,041	2,061
Nonprofit associations				
Life insurance operations	35	31	38	8
Casualty (excluding Blue Cross)	236,156	136,849	177,445	116,968
Blue Cross-Blue Shield of Michigan	2,936,199	3,099,527	2,767,622	2,878,095
TOTAL LIFE INSURANCE OPERATIONS	2,406,291	2,304,056	1,714,759	1,734,226
TOTAL CASUALTY OPERATIONS	4,330,339	4,409,253	3,902,165	3,850,998

SOURCE: Michigan Department of Licensing & Regulation, Insurance Bureau, Annual Statistical Report (Lansing: annually).

a. Casualty premiums are premiums earned.

b. Property, liability, and casualty losses are losses incurred. Life losses are losses paid.

TABLE XXII-21. RESIDENTIAL AND NONRESIDENTIAL MORTGAGES OWNED BY U.S. LIFE INSURANCE COMPANIES IN MICHIGAN AND THE UNITED STATES: 1970-1984

Year	Farm	Nonfarm F.H.A.	Nonfarm V.A.	Nonfarm conventional	Total
			Michigan (In thousands of dollars)		
1970	36,600	407,000	119,700	1,696,800	2,260,100
1971	35,200	369,400	106,700	1,747,200	2,258,500
1972	33,400	331,900	95,600	1,815,500	2,276,400
1973	31,400	298,300	82,900	1,904,000	2,316,600
1974	30,800	227,100	74,600	2,040,700	2,423,200
1975	34,800	254,100	66,500	2,096,900	2,452,300
1976	49,400	228,500	59,500	2,146,800	2,484,200
1977	50,400	204,700	52,000	2,461,300	2,768,400
1978	64,700	192,800	44,800	2,562,700	2,865,000
1979	75,900	152,400	49,000	2,842,000	3,110,300
1980	79,600	141,000	35,800	3,038,800	3,295,000
1981	80,400	131,500	32,000	3,117,300	3,361,200
1982	80,400	n.a.	n.a.	3,221,700	3,302,100
1983	82,200	n.a.	n.a.	3,178,600	3,260,800
1984	76,000	n.a.	n.a.	3,076,500	3,152,500
			United States (In millions of dollars)[a]		
1970	5,649	12,001	5,394	51,331	74,375
1971	5,601	11,336	5,004	53,555	75,496
1972	5,678	10,512	4,660	56,098	76,948
1973	5,996	9,740	4,402	61,231	81,369
1974	6,327	9,115	4,178	66,614	86,234
1975	6,753	8,502	3,903	70,009	89,167
1976	7,425	7,838	3,603	72,686	91,552
1977	8,842	7,182	3,348	77,476	96,848
1978	10,499	6,705	3,164	85,799	106,167
1979	12,184	6,372	2,975	96,890	118,421
1980	12,958	6,066	2,781	109,275	131,080
1981	13,100	5,651	2,590	116,406	137,747
1982	12,831	5,309	2,462	121,387	141,989
1983	12,742	4,921	2,241	131,095	150,999
1984	12,443	4,088	1,990	137,749	156,699

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, (Washington, D.C.: annually).

n.a.: Data not available.

a. Includes mortages held in foreign nations. As per 1983, however, total U.S. farm mortages equaled $12,717.6 million, total U.S. nonfarm mortages equaled $135,203.4 million, and total U.S. mortages equaled $147,921 million.

TABLE XXII-22. NUMBER OF STOCKBROKER AND SECURITIES DEALER FIRMS IN MICHIGAN AND THE UNITED STATES: 30 SEPTEMBER 1968-1984

	Michigan				
Year	Sole proprietorships	Partnerships	Corporations[a]	Total	Total U.S.
1968	16	10	46	72	4,355
1969	15	10	49	74	4,755
1970	17	9	55	81	5,187
1971	9	6	56	71	4,901
1972	8	5	54	67	4,968
1973	8	4	54	66	4,373
1974	8	3	52	63	3,982
1975	8	4	44	56	3,546
1976	5	5	46	56	5,380
1977	6	5	49	60	5,725
1978	6	4	45	55	6,025
1979	5	4	48	57	6,226
1980	8	4	54	66	6,730
1981	7	5	59	71	7,423
1982	7	3	66	76	8,157[b]
1983	5	5	82	92	9,154[b]
1984	4	3	93	100	10,414[b]

SOURCE: Securities and Exchange Commission, Annual Report, 1968 through 1984 (Washington, D.C.: annually).

[a] Includes all forms of organizations other than sole proprietorships and partnerships.

[b] Includes offices of foreign firms.

TABLE XXII-23. NUMBER OF SHAREHOLDERS OF PUBLIC CORPORATIONS IN MICHIGAN AND THE UNITED STATES, SELECTED YEARS: 1952-1983

(In thousands of persons)

Year	Michigan	United States
1952	n.a.	6,490
1956	370	8,604
1959	625	12,391
1962	794	16,867
1965	946	19,963
1970	1,403	30,612
1975	1,517	25,270
1980	1,349	30,200
1981	1,385	32,260
1982	n.a.	n.a.
1983	1,672	42,360

SOURCE: New York Stock Exchange, Fact Book, (New York, N.Y.: annually), and special release.

n.a. not available.

TABLE XXII-18. PAYMENTS TO LIFE INSURANCE BENEFICIARIES IN MICHIGAN AND THE UNITED STATES: 1975-1984

	Ordinary		Group		Industrial		Total	
Year	Number (1,000)	Amount ($1,000)	Number (1,000)	Amount ($1,000)	Number (1,000)	Amount ($1,000)	Number (1,000)	Amount ($1,000)
				Michigan				
1975	42.0	162,100	51.5	254,600	27.1	15,600	120.6	432,300
1976	41.7	165,900	50.1	265,000	26.1	15,500	117.9	446,400
1977	43.8	179,100	49.2	307,100	28.6	17,100	121.6	503,300
1978	43.1	190,600	50.2	324,700	26.6	16,600	119.9	531,900
1979	42.3	196,500	48.9	333,800	24.9	15,900	116.1	546,200
1980	42.3	202,700	48.6	370,800	25.4	16,500	116.3	590,000
1981	43.1	218,400	48.6	373,800	23.2	16,300	114.9	608,500
1982	44.1	225,600	47.3	405,000	24.4	17,000	115.8	647,600
1983	43.7	243,800	46.1	392,900	24.1	17,200	113.9	653,900
1984	45.3	257,600	46.0	367,900	25.4	18,100	116.7	643,600
				United States				
1975	1,098	4,473,600	906	4,256,000	922	462,500	2,926	9,192,100
1976	1,110	4,665,400	882	4,452,900	933	475,000	2,925	9,593,300
1977	1,098	4,907,500	860	4,812,900	910	475,300	2,869	10,195,700
1978	1,141	5,338,000	892	5,281,900	927	487,800	2,961	11,107,700
1979	1,120	5,576,400	893	5,708,900	881	480,400	2,894	11,765,700
1980	1,184	6,119,800	910	6,271,000	873	493,600	2,967	12,884,400
1981	1,221	6,662,600	981	7,014,400	806	447,000	3,008	14,154,000
1982	1,235	7,015,300	967	7,586,900	771	463,600	2,973	15,065,800
1983	1,246	7,324,100	908	7,865,300	765	470,300	2,919	16,659,700
1984	1,318	7,981,300	914	8,272,000	849	498,100	3,081	16,751,400

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, (Washington, D.C.: annually).

TABLE XXII-19. ASSETS, CAPITAL, AND SURPLUS OF MICHIGAN INSURANCE COMPANIES: 31 DECEMBER 1982, 1983, AND 1984

	1982			1983			1984		
Type of company	Number of companies	Admitted assets ($1,000)	Capital and surplus ($1,000)	Number of companies	Admitted assets ($1,000)	Capital and surplus ($1,000)	Number of companies	Admitted assets ($1,000)	Capital and surplus ($1,000)
Property & liability ins.									
Stock	25	1,954,594	714,634	26	2,197,469	903,088	26	2,453,626	957,776
Mutual	27	2,205,185	699,347	26	2,366,516	723,481	26	2,401,153	658,527
Reciprocal exchanges	1	798,530	185,640	1	838,556	188,409	1	857,416	203,690
Funds and pools	3	268,531	103,384	3	281,623	108,767	2	304,273	138,314
Life insurance									
Stock	24	2,107,590	382,548	25	2,585,375	458,807	26	3,373,547	575,346
Mutual	4	582,171	29,213	4	639,035	43,272	4	631,819	56,012
Nonprofit medical, hospital, dental organizations, and associations	4	1,008,154	251,309	4	1,294,427	365,361	4	1,799,756	410,193
Fraternal benefit societies	3	154,271	30,706	3	167,257	32,968	3	181,758	35,395
Health maintenance organizations	14	71,430	22,348	17	117,988	40,593	19	200,669	64,102
Farm Mutuals	5	2,570	2,382	5	2,791	2,494	5	3,031	2,830

SOURCE: Michigan Department of Licensing and Regulation, Insurance Bureau, *Annual Statistical Report*, (Lansing: annual publication).

NOTE: Nonprofit associations are a classification of "Life Insurance." Farm mutuals are not a classification of "Property & Liability Insurance." Instead, it stands alone.

TABLE XXII-24. DISTRIBUTION BY NUMBER OF BRANCHES OF FSLIC INSURED SAVINGS AND LOAN INSTITUTIONS IN MICHIGAN, JUNE 30, 1984

Institutions with:	Number of institutions	Number of offices	Savings in Michigan ($000)	Number of offices with ($000,000) savings accounts				
				$0-$9.9	$10-$24.9	$25-$49.9	$50-$99.9	$100 +
Number of branches								
0	9	8	$ 364,208	2	2	1	2	1
1	4	8	165,254	3	1	3	1	0
2	3	9	119,138	6	1	2	0	0
3-5	13	69	1,402,458	30	21	11	7	1
6-9	10	75	1,576,018	27	31	9	7	0
10 or more	15	463	15,396,979	110	174	110	51	18
TOTAL	53	630	19,024,055	178	230	136	68	20

SOURCE: Federal Home Loan Bank Board, FSLIC Savings and Loan Associations, June 30, 1984, Summary of Savings Accounts by Geographic Area (Washington, D.C.: 1985), Table 3.

XXIII. SELECTED SERVICES

The first postwar business census covered the year 1948. Subsequent censuses have been taken twice each decade, with current law authorizing the U.S. Bureau of the Census to canvass of the nation's industrial and business establishments at five-year intervals covering years ending in 2 and 7. These economic censuses cover construction industries, manufacturing, mining, retail trade, selected services, selected transportation, and wholesale trade.

Each establishment is classified on the basis of its major economic activity. Those primarily engaged in furnishing lodging, or lodging and meals, and camping space or camping facilities, on a fee basis; providing services generally involved in the care of the person or apparel, such a laundries, dry cleaning plants, portrait photographic studios, and beauty and barber shops; rendering services to business establishments on a fee or contract basis; furnishing automotive repair, leasing, and parking and other repair services to the general public, producing, distributing, or exhibiting motion pictures in commercially operated theaters; providing other amusement or entertainment on payment of a fee or admission charge; making dentures and artificial teeth to order for the dental profession; offering legal advice or legal services (providing that the head of the organization or office is a member of the bar); or rendering engineering, architectural, and surveying services were classified in the Census of Selected Services Industries, 1977. The tabulations exclude such establishments that are part of a military post, school, university, and so forth. Many service establishments, such as hospitals, physicians' offices, and educational institutions, are not covered in the Cendus of Selected Services Industries.

Beginning in 1954, the Census of Selected Service Industries has excluded firms with no paid employees during the census year unless they reported sales of $1,000 or more. Firms with no paid employees were not actually canvassed, their sales figures and kind-of-business classification being obtained from 1972 income tax returns.

Several changes were made in the kind-of-business definitions between 1967 and 1972 with the result that comparability between the two censuses is limited. The kinds of business involving the most significant changes are those in the new computer and data processing services category.

It is customary in an economic census to classify each establishments separately, irrespective of whether it is part of a larger organization.

Receipts reported in the Census of Selected Service Industries do not include receipts incidental to other kinds of business, such as wholesaling or services. They do include total receipts, including accruals, of selected service establishments even though some of these receipts were from selling merchandise, carrying charges, delivering merchandise, and so forth. Trade-in allowances are not deducted, but refunds and allowances for merchandise returned are. Sales and excise taxes are included, but nonoperating income (rental or real estate, interest or dividends on investments, and so forth) is not. Receipts include receipts so defined of all establishments with a sales volume of $1,000 or more at any time during the year, whereas the number of establishments in the Census of Retail Trade excludes those that have gone out of business during the year. The census also includes establishments in operation less than the full year, with reported sales of less than $1,000, if they could have expected reaching the $1,000 cutoff on the basis of year-round operation.

Payroll is as defined by the Internal Revenue Service. It includes wages and salaries, gratuities reported to the employer, commissions, bonuses, vacation and sick leave pay before deducting employee income taxes, Social Security taxes, union dues, and so forth. Payments in kind, such as free restaurant meals, are excluded.

Employment for the pay period including 12 March 1982 consists of paid employees of corporations and unincorporated businesses, including salaried officers and executives of corporations but excluding proprietors and partners of unincorporated businesses. Employees on paid sick leave or holiday or on vacation also are included.

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TABLE XXIII-1. AVERAGE WAGE AND SALARY EMPLOYMENT IN MICHIGAN AND THE UNITED STATES SERVICE ESTABLISHMENTS: 1956-1986

Year	Michigan Employment (000)	United States Employment (000)
1956	234.4	6,497
1957	241.2	6,708
1958	244.6	6,765
1959	244.4	7,087
1960	263.7	7,378
1961	270.8	7,620
1962	286.6	7,982
1963	298.2	8,277
1964	310.5	8,660
1965	326.7	9,036
1966	353.0	9,498
1967	376.8	10,045
1968	385.5	10,567
1969	402.9	11,169
1970	407.7	11,548
1971	420.2	11,797
1972	454.7	12,276
1973	489.1	12,857
1974	510.2	13,441
1975	514.4	13,892
1976	541.1	14,551
1977	580.5	15,303
1978	613.8	16,252
1979	626.7	17,112
1980	644.4	17,890
1981	649.4	18,619
1982	650.3	19,036
1983	675.0	19,694
1984	708.0	20,797
1985	745.3	21,974

SOURCE: Michigan Employment Security Commission, special release; Bureau of Labor Statistics, Employment and Earnings (Washington, D.C.: Monthly), March 1985, Table B-1; and Supplement to Employment and Earnings (Washington, D.C.: June 1986).

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982

Kind of business	Year	Establishments with payroll				
		Number	Receipts ($1,000)	Payroll ($1,000)		Paid employees[a] 12 March
				Entire year	First quarter	
		Hotels, motels, trailer parks, camps				
Hotels, motor hotels, and motels	1977	1,210	414,071	122,520	27,404	24,340
	1982	1,057	531,264	154,579	37,350	22,221
Hotels	1977	365	223,481	73,204	16,067	13,889
	1982	257	309,429	99,390	24,986	13,617
Hotels, 25 or more guest rooms	1977	220	216,020	71,794	15,699	13,487
	1982	149	301,058	97,889	24,667	13,293
Hotels, less than 25 guest rooms	1977	145	7,461	1,410	368	402
	1982	108	8,371	1,501	319	324
Motels, tourist courts, and motor hotels	1977	845	190,590	49,316	11,337	10,451
	1982	800	221,835	55,189	12,364	8,604
Motels, tourist courts	1977	789	147,869	36,577	8,314	7,871
	1982	747	175,219	41,031	9,066	6,625
Motor hotels	1977	56	42,721	12,739	3,023	2,580
	1982	53	46,706	14,158	3,298	1,979
Sporting and rec. camps	1977	88	8,554	2,347	510	356
	1982	56	7,194	1,785	181	183
Trailer parks and camps for transients	1977	85	5,977	946	171	92
	1982	90	8,118	1,421	163	118
TOTAL	1977	1,383	428,602	125,813	28,085	24,788
	1977	1,244	550,315	158,929	37,951	22,720
		Personal services				
Laundry, cleaning, garment services	1977	1,875	283,116	100,399	23,340	14,589
	1982	1,685	349,229	115,851	27,158	13,048
Coin-operated laundries and dry cleaning	1977	609	48,668	9,960	2,555	2,438
	1982	496	57,575	11,368	2,682	2,115
Coin-operated laundries and dry cleaning stores	1977	589	40,162	8,473	2,215	2,307
	1982	478	40,580	8,765	2,042	1,908
Coin-operated laundry machine routes	1977	20	8,506	1,487	340	131
	1982	18	16,995	2,603	640	207
Other laundry, cleaning, and garment services	1977	1,266	234,448	90,439	20,875	12,151
	1982	1,189	291,654	104,483	24,476	10,933
Power laundries, family and commercial	1977	94	27,324	12,052	2,726	1,661
	1982	77	26,760	10,776	2,553	1,129
Dry-cleaning plants except rug cleaning	1977	831	77,972	28,013	6,646	5,195
	1982	739	98,343	34,475	8,003	4,760
Garmet pressing and agents for laundries and dry cleaning	1977	57	3,027	1,067	264	196
	1982	54	2,181	515	145	108
Industrial launderers	1977	50	53,336	21,445	5,041	2,152
	1982	65	68,623	24,380	5,909	1,988
Linen supply	1977	55	57,699	22,211	4,863	2,170
	1982	60	73,750	26,439	6,043	2,174

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
		Number	Receipts ($1,000)	Payroll ($1,000)		Paid employees 12 March[a]
				Entire year	First quarter	
				Personal services (cont.)		
Diaper service	1977	9	4,172	1,695	407	139
	1982	8	8,694	3,225	770	194
Carpet and upholstery	1977	138	9,027	3,229	619	511
	1982	138	11,141	3,806	821	471
Other laundry and garmet services	1977	32	1,891	727	219	127
	1982	56	10,856	4,092	1,002	303
Photographic studios, portrait	1977	268	35,290	8,779	2,026	1,150
	1982	288	46,895	11,019	2,293	1,355
Beauty and barber shops	1977	2,951	154,400	75,016	17,746	12,119
	1982	2,502	179,168	82,460	19,021	10,694
Beauty shops	1977	2,675	139,571	68,770	16,262	11,354
	1982	2,319	167,346	76,758	17,674	10,129
Barber shops	1977	276	14,829	6,246	1,484	765
	1982	183	11,822	5,702	1,347	565
Shoe repair, shoeshine and hat cleaning shops	1977	77	4,213	1,133	295	180
	1982	93	7,393	2,730	652	367
Funeral serv. crematory	1977	591	117,853	27,895	6,502	2,774
	1982	573	162,998	39,032	9,487	2,981
Miscellaneous personal	1977	501	63,405	20,682	5,337	5,226
	1982	661	93,629	32,812	9,037	6,570
Reducing salons and health clubs, ex. res.	1977	125	24,752	7,596	1,512	1,021
	1982	121	24,229	8,034	2,106	1,436
Other personal services N.E.C.	1977	260	27,598	8,880	2,183	2,217
	1982	322	48,432	16,172	3,677	2,609
TOTAL	1977	6,263	658,277	233,904	55,246	36,038
	1982	5,802	839,312	283,904	67,648	35,015
				Business services		
Advertising	1977	334	208,160	78,215	18,212	4,585
	1982	413	342,305	133,953	32,481	5,553
Advertising agencies	1977	233	167,286	65,186	15,137	3,607
	1982	292	283,126	113,344	27,524	4,446
Outdoor adv. services	1977	28	21,428	6,000	1,445	423
	1982	32	26,805	9,624	2,251	433
Radio, TV, publishers' adv. representatives	1977	49	14,588	4,817	1,130	249
	1982	53	22,067	7,145	1,731	282
Miscellaneous adv.	1977	24	4,858	2,212	500	306
	1982	36	10,307	3,840	975	392
Services to dwellings, other buildings	1977	875	114,948	61,532	14,878	12,197
	1982	912	178,767	89,166	21,021	13,456
Window cleaning	1977	60	4,080	1,962	448	282
	1982	41	2,859	1,220	262	123
Disinfecting, exterminating services	1977	788	12,697	5,444	1,279	557
	1982	101	23,637	9,760	2,189	667

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
			Business services (cont.)			
Other cleaning, maintenance services	1977	737	98,171	54,126	13,151	11,358
	1982	770	152,271	78,186	18,570	12,666
Computer, data processing	1977	352	201,832	75,918	17,225	5,890
	1982	636	480,972	180,251	73,824	8,861
Computer programming software services .	1977	93	27,801	12,937	2,840	730
	1982	281	144,667	72,841	18,008	2,898
Data processing, exc. facilities mgmt.	1977	203	133,541	45,645	10,562	4,055
	1982	222	237,593	73,582	18,209	4,518
Computer, facilities management	1977	20	(D)	(D)	(D)	(D)
	1982	20	21,217	8,891	2,127	440
Computer related, N.E.C.	1977	36	(D)	(D)	(D)	(D)
	1982	113	77,495	24,937	5,480	1,005
Management, consulting, public relations	1977	700	157,511	67,386	15,988	5,812
	1982	1,047	316,183	136,009	33,008	9,974
Mgmt. and consulting	1977	636	147,403	63,199	14,963	5,536
	1982	432	114,070	45,959	11,060	3,111
Public relations	1977	64	10,108	4,187	1,025	276
	1982	86	17,903	8,267	1,926	411
Equip. rental, leasing	1977	367	153,283	37,312	7,567	2,435
	1982	463	221,112	54,848	13,085	3,040
Equip. rental	1977	223	56,672	11,301	2,421	963
	1982	277	97,615	23,612	5,476	1,712
Equip. leasings, exc. finance leasing	1977	66	16,544	4,584	1,063	419
	1982	95	36,784	8,789	1,940	498
Leasing, heavy cons. equip. without op.	1977	33	23,227	4,540	960	253
	1982	46	24,813	4,606	1,156	165
Rental, heavy cons. with operators	1977	45	56,838	16,887	3,123	800
	1982	45	61,900	17,841	4,513	665
Other business services	1977	2,400	953,565	409,458	91,546	46,460
	1982	2,919	1,615,862	629,983	150,791	51,536
Adjustment, collection agencies	1977	162	24,450	10,093	2,300	1,243
	1982	130	28,426	11,887	2,755	984
Mercantile reporting agencies	1977	8	(D)	(D)	(D)	(D)
	1982	5	(D)	(D)	(D)	D)
Consumer credit agencies	1977	43	9,572	3,906	916	536
	1982	38	(D)	(D)	(D)	(D)
Direct mail adv.	1977	65	30,348	9,771	2,158	1,032
	1982	60	47,912	12,261	2,786	1,039
Blueprinting and photocoping service	1977	84	18,199	5,148	1,201	518
	1982	118	35,376	10,191	2,404	712
Stenographic services; and reproduction services, N.E.C.	1977	120	16,099	7,495	1,723	714
	1982	178	30,339	13,704	3,186	1,014
Commer. photo, art, related design	1977	283	101,539	38,385	8,597	2,367
	1982	357	146,589	54,752	12,911	2,568
Commercial photography	1977	87	27,006	7,631	1,673	586
	1982	101	24,297	7,603	1,889	391

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	
			Business services (cont.)			
Commercial art	1977	70	34,848	14,893	3,411	841
	1982	89	40,502	18,051	4,277	692
Other	1977	126	39,685	15,861	3,513	940
	1982	167	81,790	29,098	6,745	1,485
News syndicates	1977	6	(D)	(D)	(D)	(D)
	1982	12	5,045	2,128	486	87
Private employment agencies	1977	184	20,471	10,351	2,131	1,012
	1982	238	34,089	18,562	4,586	1,670
Temp. office help, supply services	1977	92	41,687	30,974	6,852	6,768
	1982	97	64,796	38,754	9,023	5,340
Temp. help supply, exc. office workers	1977	87	58,217	40,948	8,929	5,906
	1982	121	81,253	54,454	12,241	8,164
Commercial research development lab	1977	62	197,885	52,247	10,878	2,168
	1982	71	324,327	83,072	20,903	3,049
Commercian testing lab	1977	64	18,800	7,849	1,588	522
	1982	79	31,234	12,919	3,018	709
Detective agencies and guard services	1977	202	78,400	55,619	13,417	10,715
	1982	307	163,662	95,667	23,321	11,660
Armored car service	1977	23	14,713	8,313	2,038	848
	1982	12	14,279	6,448	1,601	511
Burglar and fire alarm	1977	44	17,229	7,344	1,744	878
	1982	58	39,804	15,953	3,792	1,196
Photofinishing lab	1977	83	67,099	19,405	4,362	1,911
	1982	107	101,374	27,561	6,618	2,281
Trading stamp (sales office)	1977	3	(D)	(D)	(D)	(D)
	1982	2	(D)	(D)	(D)	(D)
Sign painting shops	1977	39	6,910	2,428	509	209
	1982	34	4,845	1,474	308	103
Interior designing	1977	34	4,800	1,058	234	123
	1982	54	10,980	2,413	566	173
Telephone answering service	1977	76	11,281	5,441	1,282	867
	1982	91	16,431	7,288	1,796	1,016
Water softening service	1977	86	17,260	5,305	1,146	467
	1982	86	22,958	6,992	1,531	451
Packaging and labeling	1977	37	32,472	7,621	1,753	883
	1982	57	75,239	17,025	3,933	1,481
Miscellaneous business, N.E.C.	1977	495	149,607	71,278	15,873	6,097
	1982	673	(D)	(D)	(D)	(D)
TOTAL	1977	5,028	1,789,299	729,821	165,416	77,379
	1982	6,390	3,155,201	1,224,210	294,210	92,420

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
				Payroll ($1,000)		
		Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
		Automotive repair, services, and garages				
Auto repair shops	1977	2,693	514,413	148,988	34,355	12,893
	1982	2,832	654,860	179,896	41,251	12,010
General auto repair	1977	942	142,536	37,123	8,966	3,711
	1982	979	189,576	49,191	11,327	3,732
General auto, exc. diesel	1977	879	123,172	31,894	7,751	3,297
	1982	887	157,360	41,133	9,349	3,137
Diesel repair shop	1977	63	19,364	5,229	1,215	414
	1982	92	32,216	8,058	1,978	595
Top and body repair shops	1977	855	189,010	59,445	13,791	4,744
	1982	906	220,459	65,309	15,134	4,072
Other auto repair shops	1977	896	182,867	52,420	11,598	4,438
	1982	947	244,825	65,396	14,790	4,206
Tire retreading repair	1977	54	17,793	4,440	978	399
	1982	44	19,672	4,286	1,105	308
Paint shop	1977	129	22,354	7,248	1,578	656
	1982	100	21,713	6,420	1,306	448
Auto electrical and fuel system serv.	1977	75	10,773	2,973	706	298
	1982	70	11,579	3,599	836	261
Radiator repair	1977	78	14,384	3,915	824	335
	1982	92	19,148	4,824	1,047	312
Glass replacement repair	1977	120	28,789	8,224	1,902	700
	1982	137	43,941	10,844	2,487	736
Brake, front end and wheel alignment	1977	79	15,379	5,055	1,105	390
	1982	93	25,842	7,898	1,743	477
Exhaust system (muffler shops)	1977	104	27,432	6,901	1,387	503
	1982	175	56,309	13,746	2,879	723
Transmission repair	1977	215	30,302	9,289	2,182	812
	1982	180	35,637	10,339	2,639	705
Other auto repair N.E.C.	1977	42	15,661	4,375	936	345
	1982	56	10,984	3,440	748	236
Auto. rental, leasing without drivers	1977	291	291,439	29,608	6,624	2,257
	1982	286	293,305	41,761	10,130	2,586
Passenger car rental without drivers	1977	62	37,140	6,347	1,504	685
	1982	67	56,520	10,010	2,365	772
Passenger car leasing ex. finance leasing	1977	57	138,609	5,745	1,449	417
	1982	54	81,472	6,500	1,740	303
Truck rental without drivers	1977	53	33,758	4,768	1,095	366
	1982	70	29,000	5,686	1,215	463
Truck leasing, exc. finance leasing	1977	91	76,537	12,074	2,418	720
	1982	76	123,058	18,897	4,684	1,005
Utility and recreation vehicle rental	1977	28	5,395	674	158	69
	1982	19	3,255	668	126	43
Automobile parking	1977	235	25,866	5,469	1,398	906
	1982	206	34,100	7,183	1,626	882
Parking lots	1977	209	15,963	3,355	885	629
	1982	177	14,467	3,624	843	523

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
		Number	Receipts ($1,000)	Entire year	First quarter	
Automotive repair, services, and garages						
Parking structures	1977	26	9,903	2,114	513	277
	1982	29	19,633	3,559	783	359
Auto service, exc. repair	1977	568	88,573	25,740	6,178	4,030
	1982	563	88,045	24,559	5,816	3,237
Car washes	1977	370	45,076	10,996	2,856	2,689
	1982	328	50,870	13,353	3,389	2,246
Other auto serv	1977	198	43,497	14,744	3,322	1,341
	1982	235	37,175	11,206	2,427	991
TOTAL	1977	3,787	920,291	209,805	48,555	20,086
	1982	3,887	1,070,310	253,399	58,823	18,715
Miscellaneous repair services						
Elec. and electronic repair shops	1977	607	103,859	33,405	7,893	2,978
	1982	526	133,564	45,430	10,866	2,914
Radio and TV repair	1977	332	43,294	13,321	3,140	1,327
	1982	236	41,345	12,669	3,135	983
Other elec. and electronic repair	1977	275	60,565	20,084	4,753	1,651
	1982	290	92,219	32,761	7,731	1,931
Refrigeration and air-cond. repair	1977	89	18,752	5,439	1,166	404
	1982	99	27,466	8,738	1,965	448
Elec. and electronic, N.E.C.	1977	186	41,813	14,645	3,587	1,247
	1982	191	64,753	24,023	5,766	1,483
Reupholstery and furniture	1977	198	17,107	5,203	1,211	706
	1982	161	15,327	4,902	1,095	5[illegible]1
Other repair shops and related services	1977	1,095	239,635	76,899	16,930	6,152
	1982	1,146	323,285	100,940	24,029	6,300
Watch, clock, jewelry	1977	60	7,190	1,380	315	169
	1982	59	6,118	1,406	343	145
Misc. repair and repair services	1977	1,035	232,445	75,519	16,615	5,983
	1982	1,087	317,167	99,534	23,686	6,155
Welding repair	1977	179	37,746	13,429	2,637	1,112
	1982	174	38,604	13,143	3,038	880
Armature rewinding shops	1977	90	47,286	15,482	3,542	1,011
	1982	92	50,748	15,940	4,023	871
Farm machinery/ equipment	1977	21	3,296	973	221	81
	1982	22	3,079	751	176	71
Lawnmower, saw, knife, tool sharpening repair	1977	58	9,809	2,962	672	288
	1982	73	13,407	3,325	792	239
Sewer, septic tank cleaning	1977	53	7,750	2,731	596	198
	1982	66	12,647	4,620	943	294
Other repair related serv. N.E.C.	1977	634	126,558	39,942	8,947	3,293
	1982	660	198,682	61,755	14,714	3,800
TOTAL	1977	1,900	360,601	115,507	26,034	9,836
	1982	1,833	472,176	151,272	35,990	9,745

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
		Amusement and recreation services, including motion pictures				
Motion picture prod. dist. services	1977	87	84,693	12,618	2,743	749
	1982	107	125,238	22,053	5,122	950
Motion picture prod. except TV	1977	30	25,216	6,309	1,289	317
	1982	28	32,846	9,584	2,292	358
Motion picture, tape prod. for TV	1977	9	2,208	577	136	37
	1982	23	9,980	1,642	337	85
Services allied to motion picture prod.	1977	14	9,742	3,402	769	199
	1982	23	23,092	7,189	1,611	319
Motion picture film exchanges	1977	23	43,565	1,772	402	127
	1982	22	54,772	2,676	662	135
Film or tape dist. for TV	1977	2	(D)	(D)	(D)	(D)
	1982	4	1,358	178	30	9
Serv. allied to motion picture dist.	1977	9	(D)	(D)	(D)	(D)
	1982	7	3,190	784	190	44
Motion picture theaters	1977	341	92,607	15,715	3,536	3,565
	1982	316	105,292	18,557	4,094	3,189
Motion picture theaters, exc. drive-in	1977	238	74,253	12,568	3,051	3,148
	1982	220	90,301	15,646	3,780	2,927
Drive-in motion pictures	1977	103	18,354	3,147	485	417
	1982	96	14,991	2,911	314	262
Producers, orchestras, entertainers	1977	106	30,068	6,059	1,089	582
	1982	97	50,577	11,582	2,455	883
Dance groups and artists	1977	7	111	53	20	9
	1982	2	(D)	(D)	(D)	(D)
Symphony orchestras, other classical music, dance groups	1977	--	--	--	--	--
	1982	--	--	--	--	--
Other entertainment presentation, inc. variety	1977	46	(D)	(D)	(D)	(D)
	1982	50	(D)	(D)	(D)	(D)
Prod. of legitimate theater	1977	17	2,096	509	69	57
	1982	--	--	--	--	--
Prod. of radio & TV shows, exc. tape	1977	3	(D)	(D)	(D)	(D)
	1982	3	432	111	30	5
Theatrical services	1977	33	14,704	3,163	567	209
	1982	--	--	--	--	--
Artists' - entertainers' mgrs. or agents, concert bureaus, bkg. agents	1977	18	6,871	1,565	220	79
	1982	20	9,422	2,310	545	80
Other theatrical services	1977	15	7,833	1,598	347	130
	1982	11	13,433	2,689	753	336
Bowling alleys, billiards and pool	1977	446	138,829	38,542	10,313	9,131
	1982	421	171,059	74,142	12,884	8,030
Billiard and pool establishments	1977	38	2,862	764	202	203
	1982	23	1,393	356	107	62
Bowling alleys	1977	408	135,967	37,778	10,111	8,928
	1982	398	169,666	46,786	12,777	7,968

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
Kind of business	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
		Amusement and recreation services, including motion pictures				
Other amusement and rec. services	1977	1,110	263,003	70,841	14,067	7,975
	1982	1,285	344,958	101,663	22,279	9,637
Dance halls, studios, and schools	1977	95	5,134	1,803	471	467
	1982	111	5,681	1,799	493	446
Public dance halls or ballrooms	1977	7	1,072	352	63	71
	1982	--	--	--	--	--
Dance schools, inc. childrens & profess.	1977	88	4,062	1,451	408	396
	1982	111	5,681	1,799	493	446
Commercial sports	1977	89	100,968	28,447	5,501	1,389
	1982	72	90,457	35,411	9,008	1,492
Profess. sports clubs, mgrs., promoters	1977	19	29,225	13,951	3,826	642
	1982	18	26,003	22,918	6,827	440
Baseball clubs	1977	3	(D)	(D)	(D)	(D)
	1982	1	(D)	(D)	(D)	(D)
Football clubs	1977	2	(D)	(D)	(D)	(D)
	1982	2	(D)	(D)	(D)	(D)
Other professional sports	1977	6	(D)	(D)	(D)	(D)
	1982	7	9,397	7,292	2,846	254
Managers and promoters	1977	8	645	178	69	51
	1982	8	(D)	(D)	(D)	(D)
Racing, incl. track operations	1977	70	71,743	14,496	1,675	747
	1982	54	64,454	12,493	2,181	1,052
Racetrack operation	1977	25	65,950	12,772	1,305	509
	1982	n.a.	n.a.	n.a.	n.a.	n.a.
Auto racetrack operation	1977	21	(D)	(D)	(D)	(D)
	1982	18	5,994	1,612	297	120
Horse racetrack operation	1977	4	(D)	(D)	(D)	(D)
	1982	5	50,478	9,093	1,685	838
Dog racetrack operation	1977	--	--	--	--	--
	1982	--	--	--	--	--
Racing stables, racing, N.E.C.	1977	45	5,793	1,724	370	238
	1982	31	7,982	1,780	199	94
Public golf course, exc. municipal	1977	210	32,805	8,991	1,043	587
	1982	228	50,345	12,640	1,632	1,025
Membership sports and recreation clubs	1977	195	45,273	13,493	2,600	1,910
	1982	249	72,540	22,412	4,561	2,727
Coin-operated amustment devices	1977	78	13,803	3,072	755	383
	1982	185	34,231	7,124	1,649	700
Amusement parks	1977	25	5,632	1,550	112	92
	1982	15	7,901	2,228	176	105
Concession operators of amusement devices, rides	1977	38	9,567	1,364	206	120
	1982	21	3,695	534	99	64
Carnivals, circuses	1977	3	934	105	16	10
	1982	9	6,152	782	51	72
Fairs	1977	7	885	312	20	6
	1982	--	--	--	--	--

TABLE XXIII-2. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN: 1947, 1954, 1958, 1963, 1967, 1972, 1977 AND 1982

	Establishments with payroll				All establishments[a]	
Year	Number	Receipts ($1,000,000)	Annual payroll ($1,000,000)	Paid employees[b]	Number	Receipts ($1,000,000)
1947[c]	n.a.	n.a.	130	48,315	21,376	367
1954	15,127	935	267	76,449	29,669	1,016
1958	17,653	1,256	338	93,279	38,521	1,380
1963	20,188	1,642	424	114,614	44,412	1,793
1967	19,654	2,214	647	139,436	43,214	2,397
1972[d]	20,846	3,223	939	162,205	48,727	3,504
1972[e]	24,718	3,446	1,222	186,018	56,080	3,784
1977[e]	24,921	5,882	2,059	218,851	60,550	6,389
1977[f]	n.a.	n.a.	n.a.	n.a.	94,436	9,473
1982	43,705	13,448	5,312	362,797	n.a.	n.a.

SOURCE: Bureau of the Census, 1982 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1985), SC82-A-23, Table 1a; and similar documents for other years.

a. Excludes establishments with no paid employment and with annual receipts less than $1,000.
b. Week including 15 November for 1947-1963; week including 12 March for 1967-1982.
c. Unrevised statistics. Based upon reports from establishments with receipts of $500 or more.
d. Based on 1967 Standard Industrial Classification. Excludes dental laboratories, legal services, and architectural, engineering, and land surveying services which are included in the Census of Selected Service Industries, 1972.
e. Based on 1972 Standard Industrial Classification. Includes dental laboratories, legal services, and architectural, engineering, and land surveying services which were excluded in the Census of Business, 1967, Selected Services.
f. Definition of selected services expanded to reflect the inclusion of health services, except hospitals; selected educational services; accounting, auditing and bookkeeping services; and social services.
n.a.: data not available.

TABLE XXIII-3. DETAILED STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY KIND OF BUSINESS: 1977 AND 1982 (cont.)

Kind of business	Year	Establishments with payroll				
		Number	Receipts ($1,000)	Payroll ($1,000)		Paid employees 12 March[a]
				Entire year	First quarter	
Amusement and recreation services, including motion pictures						
Other comm. rec. and amusements	1977	362	47,862	11,659	3,325	2,999
	1982	395	73,956	18,733	4,610	3,006
TOTAL	1977	2,090	609,200	143,775	31,748	22,002
	1982	2,226	797,124	200,997	46,834	22,689
Dental laboratories						
TOTAL	1977	222	37,321	15,592	3,632	1,367
	1982	269	53,453	23,273	5,558	1,557
Legal services						
TOTAL	1977	3,236	573,526	212,227	47,344	13,312
	1982	3,739	1,066,195	459,815	106,017	18,693
Architectural, engineering, and land surveying services						
Architectural services	1977	331	104,436	48,597	11,150	2,612
	1982	338	125,121	61,373	16,784	2,600
Engineering services	1977	522	378,177	212,394	46,089	10,604
	1982	811	602,078	318,617	76,712	12,377
Land surveying services	1977	159	22,152	11,746	2,304	827
	1982	158	18,943	9,759	2,529	694
TOTAL	1977	1,012	504,765	272,737	59,543	14,043
	1982	1,307	746,142	389,749	96,025	15,671
TOTAL SELECTED SERVICES	1977	24,921	5,881,882	2,059,181	465,603	218,851
	1982	43,705	13,448,485	5,311,923	1,272,248	362,797

SOURCE: Bureau of the Census, 1977 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1980), SC77-A-23, Table 1; and Bureau of the Census, 1982 Census of Service Industries, Geographic Area Series, Michigan (Washington, D.C.: 1985), SC82-A-23, Table 1a.

a. Week including 12 March.
(D). Data withheld to avoid disclosing figures for individual companies.
N.E.C.: not elsewhere classified.

TABLE XXIII-4. SUMMARY STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982

		Establishments with payroll				
				Payroll ($1,000)		Paid employees 12 March[a]
County	Year	Number	Receipts ($1,000)	Entire year	First quarter	
Alcona	1977	17	1,000	244	63	45
	1982	17	2,038	949	178	94
Alger	1977	21	1,354	219	44	37
	1982	34	5,580	1,328	292	178
Allegan	1977	151	17,029	4,211	929	659
	1982	223	41,945	15,063	3,469	1,444
Alpena	1977	95	14,904	3,399	760	493
	1982	153	30,997	9,203	2,093	928
Antrim	1977	39	6,485	2,217	540	435
	1982	65	10,991	3,682	983	629
Arenac	1977	26	2,193	456	98	91
	1982	49	7,679	2,505	512	296
Baraga	1977	16	1,404	399	67	652
	1982	30	3,789	1,422	410	177
Barry	1977	60	3,933	1,002	252	204
	1982	108	15,289	4,979	1,195	511
Bay	1977	274	41,118	13,299	2,974	1,551
	1982	470	100,451	40,219	9,197	2,838
Benzie	1977	41	3,833	796	192	175
	1982	61	8,666	2,227	590	288
Berrien	1977	475	70,436	22,452	5,192	3,245
	1982	739	161,300	59,259	14,084	5,208
Branch	1977	90	12,656	2,192	467	269
	1982	119	20,361	7,655	1,741	613
Calhoun	1977	365	52,244	18,664	4,421	2,564
	1982	632	139,695	52,688	12,299	5,139
Cass	1977	79	7,458	1,983	452	352
	1982	111	18,330	6,146	1,361	557
Charlevoix	1977	75	10,032	2,653	841	608
	1982	99	16,309	4,314	1,319	696
Cheboygan	1977	113	7,620	2,040	340	260
	1982	181	19,268	5,623	1,017	481
Chippewa	1977	114	9,851	2,925	604	471
	1982	156	16,975	5,638	1,251	585
Clare	1977	48	4,974	1,213	323	241
	1982	74	16,108	5,828	1,334	747
Clinton	1977	81	10,959	3,677	849	418
	1982	151	21,391	8,183	2,119	743
Crawford	1977	42	4,014	1,026	255	210
	1982	48	8,580	2,170	482	253
Delta	1977	108	10,740	3,424	762	492
	1982	163	30,415	11,812	2,754	1,057
Dickinson	1977	81	9,810	2,929	774	488
	1982	148	25,616	8,320	2,326	889
Eaton	1977	148	16,745	5,012	1,165	725
	1982	290	52,982	19,343	4,464	1,557
Emmet	1977	127	20,406	5,572	1,456	982
	1982	172	55,018	21,655	4,651	1,556
Genesee	1977	1,072	182,797	64,245	14,897	8,136
	1982	2,042	522,309	216,656	50,946	15,098
Gladwin	1977	27	2,058	560	135	87
	1982	52	6,219	2,065	498	243
Gogebic	1977	69	7,359	2,104	723	559
	1982	106	17,089	5,352	1,565	793
Grand Traverse	1977	246	40,787	12,775	2,815	1,739
	1982	514	131,903	47,933	10,731	3,378

TABLE XXIII-4. SUMMARY STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
County	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Gratiot	1977	80	7,569	1,771	468	293
	1982	153	26,768	9,984	2,197	913
Hillsdale	1977	83	9,047	2,414	543	328
	1982	128	17,418	6,257	1,326	538
Houghton	1977	89	10,011	2,261	542	417
	1982	169	23,780	8,413	2,126	841
Huron	1977	83	5,845	1,309	296	214
	1982	149	19,395	6,854	1,604	518
Ingham	1977	525	174,177	62,520	13,586	6,800
	1982	1,511	435,020	176,496	43,732	11,962
Ionia	1977	85	6,481	1,639	369	285
	1982	160	21,121	7,172	1,711	824
Iosco	1977	84	5,448	1,452	315	238
	1982	130	15,035	5,751	1,386	554
Iron	1977	38	4,408	1,184	290	169
	1982	65	10,145	3,376	876	365
Isabella	1977	111	15,033	5,072	1,131	675
	1982	207	59,338	20,048	4,623	1,548
Jackson	1977	348	121,588	49,373	10,501	4,198
	1982	636	217,597	94,950	21,939	5,802
Kalamazoo	1977	645	137,600	45,459	10,231	5,605
	1982	1,155	332,802	145,928	34,932	10,235
Kalkaska	1977	25	2,442	771	155	93
	1982	47	7,134	2,137	502	250
Kent	1977	1,372	300,160	107,269	24,834	13,834
	1982	2,427	835,024	326,609	77,428	24,548
Keweenaw	1977	9	339	80	90	6
	1982	4	303	41	4	3
Lake	1977	13	620	91	19	14
	1982	12	1,959	713	158	109
Lapeer	1977	109	10,102	2,826	661	402
	1982	198	32,189	12,902	2,984	938
Leelanau	1977	40	4,708	1,464	378	276
	1982	53	10,855	3,659	1,045	663
Lenawee	1977	217	24,431	6,477	1,482	1,045
	1982	376	70,736	23,356	5,604	2,094
Livingston	1977	173	37,039	9,680	2,590	1,491
	1982	355	82,717	29,287	7,184	2,607
Luce	1977	26	1,673	375	84	78
	1982	35	2,658	946	209	123
Mackinac	1977	69	11,705	3,145	264	150
	1982	87	11,719	3,517	513	297
Macomb	1977	1,710	498,837	160,160	35,372	14,645
	1982	3,237	1,179,911	447,799	107,768	26,910
Manistee	1977	71	6,761	1,679	369	255
	1982	103	13,016	4,432	988	469
Marquette	1977	172	19,062	5,806	1,342	906
	1982	318	63,334	26,021	6,656	1,906
Mason	1977	85	7,417	1,884	436	370
	1982	131	18,052	6,198	1,485	533
Mecosta	1977	53	5,470	1,624	330	221
	1982	111	15,697	5,769	1,246	465
Menominee	1977	45	5,216	1,373	417	358
	1982	74	10,972	3,639	849	419
Midland	1977	141	26,971	9,899	2,169	1,281
	1982	309	73,824	29,084	6,787	2,167
Missaukee	1977	14	802	152	27	23
	1982	18	1,699	503	108	41

TABLE XXIII-4. SUMMARY STATISTICS FOR SERVICE INDUSTRY ESTABLISHMENTS IN MICHIGAN, BY COUNTY: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
County	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
Monroe	1977	220	36,084	9,590	2,095	1,243
	1982	383	89,141	30,067	7,046	2,764
Montcalm	1977	80	5,618	1,210	327	270
	1982	167	33,854	7,661	1,707	754
Montmorency	1977	21	1,181	515	104	39
	1982	26	2,281	779	139	63
Muskegon	1977	361	53,091	15,971	3,730	2,111
	1982	661	159,933	60,397	14,072	4,482
Newaygo	1977	48	2,574	719	150	91
	1982	85	11,492	3,980	929	409
Oakland	1977	4,300	1,455,128	529,690	118,358	46,587
	1982	8,671	3,345,591	1,386,639	334,504	81,111
Oceana	1977	41	3,450	874	191	162
	1982	63	8,823	2,454	524	218
Ogemaw	1977	39	7,670	1,027	196	102
	1982	78	12,360	4,978	1,063	441
Ontonagon	1977	18	1,235	248	64	88
	1982	36	4,025	1,932	457	198
Osceola	1977	29	2,946	765	121	103
	1982	42	5,304	1,642	408	160
Oscoda	1977	13	542	160	24	21
	1982	24	2,039	464	115	57
Otsego	1977	66	12,182	3,667	840	576
	1982	102	22,781	8,069	2,077	723
Ottawa	1977	324	500,949	16,670	3,810	2,235
	1982	686	144,764	51,653	12,172	4,805
Presque Isle	1977	31	1,723	478	114	69
	1982	41	4,150	1,697	361	146
Roscommon	1977	65	3,419	771	169	124
	1982	83	11,473	2,767	603	360
Saginaw	1977	577	104,423	33,723	7,888	4,296
	1982	1,011	254,824	97,850	22,833	7,583
St. Clair	1977	285	33,477	10,262	2,490	1,576
	1982	496	98,439	38,320	9,573	2,989
St. Joseph	1977	125	13,709	3,608	838	547
	1982	204	34,012	11,875	2,808	1,266
Sanilac	1977	74	5,935	1,266	248	171
	1982	119	14,812	3,962	951	389
Schoolcraft	1977	48	3,545	754	138	113
	1982	47	6,650	1,970	453	196
Shiawassee	1977	123	15,298	4,400	1,000	596
	1982	229	40,950	15,183	3,633	1,172
Tuscola	1977	82	5,005	1,149	265	179
	1982	141	19,955	7,287	1,624	711
Van Buren	1977	122	25,850	6,029	1,206	676
	1982	199	40,431	14,895	3,587	1,495
Washtenaw	1977	778	227,925	95,431	21,720	8,335
	1982	1,539	516,295	206,354	51,411	12,894
Wayne	1977	6,040	1,761,451	645,932	147,090	67,073
	1982	9,072	3,429,577	1,354,346	324,917	90,910
Wexford	1977	96	11,714	3,376	830	601
	1982	135	28,017	10,646	2,460	883
TOTAL	1977	24,921	5,881,882	2,059,181	465,603	218,851
	1982	43,705	13,448,485	5,311,923	1,272,248	362,797

SOURCE: Bureau of the Census, *1977 Census of Service Industries, Geographic Area Series, Michigan* (Washington, D.C.: 1980), SC77-A-23, Table 7; and Bureau of the Census, *1982 Census of Service Industries, Area Series, Michigan* (Washington, D.C.: 1985), SC82-A-23, Table 8.

a. Week including 12 March.

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982

		Establishments with payroll				
				Payroll ($1,000)		Paid
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
Adrian	1977	104	12,789	4,070	936	655
	1982	192	37,239	13,530	3,306	1,237
Albion	1977	37	4,730	1,396	342	220
	1982	67	11,952	3,920	900	407
Algonac	1977	10	715	166	36	23
	1982	20	2,022	556	119	54
Allegan	1977	43	4,178	1,390	302	185
	1982	53	8,051	3,076	775	301
Allen Park	1977	99	21,182	6,139	1,270	835
	1982	204	67,746	26,243	6,473	1,856
Alma	1977	38	3,465	769	197	152
	1982	83	14,662	5,982	1,286	486
Alpena	1977	81	7,989	2,091	473	376
	1982	128	26,284	8,006	1,804	814
Ann Arbor	1977	445	139,208	61,138	13,865	5,396
	1982	851	326,439	119,038	29,801	7,839
Bad Axe	1977	23	1,800	293	70	52
	1982	43	5,530	1,938	552	131
Battle Creek	1977	187	27,772	10,961	2,591	1,411
	1982	292	76,394	29,701	7,129	3,007
Bay City	1977	173	29,222	9,763	2,195	1,153
	1982	278	58,128	24,328	5,481	1,551
Belding	1977	14	953	276	65	62
	1982	25	4,688	1,673	373	225
Belleville	1977	35	3,471	1,021	260	154
	1982	46	6,534	2,502	618	212
Benton Harbor	1977	77	18,158	4,809	1,080	607
	1982	124	32,745	11,373	2,619	993
Berkley	1977	82	18,994	9,760	2,382	754
	1982	136	26,380	11,744	2,842	851
Bessemer	1977	16	1,363	428	207	159
	1982	18	4,319	999	460	282
Beverly Hills	1977	21	4,247	1,846	470	166
	1982	66	15,027	7,027	1,781	432
Big Rapids	1977	32	3,923	1,182	250	173
	1982	85	12,188	4,651	993	367
Birmingham	1977	250	48,019	18,265	4,130	1,713
	1982	475	123,202	53,600	12,240	3,692
Blissfield	1977	14	1,134	206	41	32
	1982	19	1,847	402	97	48
Bloomfield Hills	1977	74	49,558	16,951	3,998	1,374
	1982	222	117,928	50,042	11,898	2,140
Boyne City	1977	21	1,306	357	92	62
	1982	21	1,820	442	123	67
Brighton	1977	46	10,916	2,971	945	583
	1982	128	36,159	10,733	2,626	759
Buchanan	1977	12	1,727	435	140	68
	1982	28	5,257	1,580	431	178
Burton	1977	57	8,001	2,793	692	351
	1982	124	23,118	8,770	2,211	655
Cadillac	1977	65	6,534	1,954	463	276
	1982	105	22,492	9,166	2,147	701
Carleton	1977	--	--	--	--	--
	1982	13	1,371	410	97	33
Caro	1977	27	2,089	457	101	71
	1982	44	6,648	2,469	565	207
Cedar Springs	1977	--	--	--	--	--
	1982	19	1,629	445	108	61

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Center Line	1977	39	(D)	(D)	(D)	(D)
	1982	55	(D)	(D)	(D)	(D)
Charlevoix	1977	27	1,784	589	125	74
	1982	44	4,689	1,557	339	160
Charlotte	1977	33	2,618	606	148	106
	1982	56	6,814	2,468	558	231
Cheboygan	1977	45	2,996	921	196	129
	1982	108	12,766	4,212	832	335
Chelsea	1977	20	1,515	349	84	54
	1982	34	4,665	1,678	451	122
Chesaning	1977	15	1,739	496	122	68
	1982	26	3,720	1,208	384	120
Clare	1977	29	(D)	(D)	(D)	(D)
	1982	42	(D)	(D)	(D)	(D)
Clawson	1977	57	8,922	3,650	786	329
	1982	86	20,038	9,364	2,439	618
Clio	1977	--	--	--	--	--
	1982	21	3,106	1,047	179	56
Coldwater	1977	54	9,634	1,664	330	179
	1982	82	16,768	6,415	1,404	487
Coopersville	1977	--	--	--	--	--
	1982	12	1,811	641	165	50
Corunna	1977	7	672	81	18	16
	1982	23	2,985	912	167	81
Davison	1977	24	1,622	507	119	84
	1982	50	6,640	2,682	647	83
Dearborn	1977	370	145,245	49,260	11,399	5,650
	1982	698	282,188	110,813	26,668	7,689
Dearborn Hgts.	1977	151	21,133	7,140	1,546	838
	1982	256	56,719	18,887	4,478	1,425
Detroit	1977	3,223	1,070,580	420,019	97,166	42,721
	1982	4,058	1,855,737	759,305	182,156	48,469
DeWitt	1977	--	--	--	--	--
	1982	12	1,562	601	150	47
Dowagiac	1977	38	2,999	665	151	108
	1982	52	6,705	2,169	546	188
Dundee	1977	--	--	--	--	--
	1982	11	970	351	79	33
Durand	1977	7	672	81	18	16
	1982	33	7,212	2,269	540	254
East Detroit	1977	144	29,956	9,066	2,113	1,211
	1982	281	60,515	23,480	5,600	1,447
East Grand Rapids	1977	22	2,145	973	233	90
	1982	96	36,206	17,914	4,173	689
East Lansing	1977	81	16,129	6,706	1,265	637
	1982	166	36,265	15,654	4,098	1,086
East Tawas	1977	--	--	--	--	--
	1982	28	2,394	967	236	75
Eaton Rapids	1977	15	733	171	36	27
	1982	27	3,627	1,564	365	145
Ecorse	1977	17	2,825	894	201	74
	1982	22	6,966	2,273	500	143
Escanaba	1977	82	9,187	3,046	684	439
	1982	118	24,938	9,988	2,337	870
Essexville	1977	8	1,614	479	116	66
	1982	26	3,806	1,345	302	122
Farmington	1977	92	21,056	6,876	1,703	1,047
	1982	164	39,820	16,485	4,023	1,130

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	Establishments with payroll				
				Payroll ($1,000)		Paid
		Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
Farmington Hills	1977	167	33,673	13,758	2,810	1,115
	1982	482	159,714	55,577	13,250	3,317
Fenton	1977	35	3,025	834	182	108
	1982	73	12,894	5,612	1,400	504
Ferndale	1977	125	31,675	11,246	2,618	1,326
	1982	174	44,059	16,911	3,920	1,270
Flat Rock	1977	22	2,399	668	168	98
	1982	27	4,255	1,188	298	133
Flint	1977	644	111,828	40,005	9,409	5,125
	1982	1,045	280,571	116,968	28,157	8,112
Flushing	1977	18	1,240	541	133	73
	1982	54	10,682	4,389	1,022	494
Frankenmuth	1977	20	2,454	872	199	144
	1982	35	8,411	3,276	639	299
Franklin	1977	35	6,631	2,538	550	171
	1982	24	3,034	1,222	249	91
Fraser	1977	58	15,037	5,924	1,322	510
	1982	88	27,557	11,070	2,549	826
Fremont	1977	25	1,376	492	69	55
	1982	48	8,285	3,072	745	301
Garden City	1977	92	13,481	5,542	1,348	599
	1982	170	45,827	19,377	4,970	974
Gaylord	1977	46	8,859	2,586	549	380
	1982	83	18,866	6,640	1,673	578
Gibraltar	1977	4	(D)	(D)	(D)	(D)
	1982	9	574	166	36	22
Gladstone	1977	18	1,109	301	64	40
	1982	26	3,491	1,299	296	135
Grand Blanc	1977	33	6,758	3,013	695	306
	1982	91	20,070	8,417	1,686	613
Grand Haven	1977	58	9,016	4,341	1,105	418
	1982	139	25,330	9,882	2,336	855
Grand Ledge	1977	27	1,854	562	126	82
	1982	50	5,916	2,607	621	237
Grand Rapids	1977	776	192,154	72,307	16,395	9,262
	1982	1,306	464,330	190,191	45,295	13,186
Grandville	1977	48	5,746	1,616	309	207
	1982	105	18,190	6,052	1,428	705
Greenville	1977	26	2,483	568	145	98
	1982	74	13,493	4,081	861	454
Grosse Pointe	1977	39	4,073	1,837	431	218
	1982	91	15,358	7,302	1,851	403
Grosse Pointe Farms	1977	26	2,122	715	196	164
	1982	67	11,518	5,313	1,364	291
Grosse Pointe Park	1977	35	4,813	1,106	222	130
	1982	47	8,388	3,366	874	155
Grosse Pointe Shores	1977	3	(D)	(D)	(D)	(D)
	1982	15	(D)	(D)	(D)	(D)
Grosse Pointe Woods	1977	58	8,965	3,565	878	432
	1982	138	27,196	11,222	2,626	731
Hamtramck	1977	59	5,486	1,608	422	248
	1982	63	11,918	4,911	1,160	472
Hancock	1977	23	3,981	646	164	106
	1982	61	11,750	4,184	1,075	343
Harper Woods	1977	63	13,818	5,908	1,306	647
	1982	121	32,795	14,241	3,410	778
Hastings	1977	41	2,945	762	176	131
	1982	73	10,955	4,004	946	401

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		Paid
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	employees 12 March[a]
Hazel Park	1977	77	42,489	11,510	1,766	687
	1982	90	56,920	18,647	4,167	1,622
Highland Park	1977	58	12,319	4,019	864	502
	1982	85	33,593	11,414	3,041	1,038
Hillsdale	1977	43	3,971	1,298	314	195
	1982	57	8,634	3,447	736	259
Holland	1977	116	19,710	6,412	1,406	1,014
	1982	261	63,561	24,230	5,607	2,067
Holly	1977	20	1,518	450	103	70
	1982	23	3,325	1,311	309	132
Houghton	1977	27	3,306	821	198	172
	1982	35	5,518	1,795	427	225
Howell	1977	52	6,672	2,587	677	330
	1982	110	23,656	9,670	2,290	944
Hudson	1977	10	970	145	41	36
	1982	15	1,275	446	97	43
Hudsonville	1977	7	349	114	30	25
	1982	22	2,625	996	252	76
Huntington Woods	1977	15	3,418	1,120	262	94
	1982	62	20,216	9,936	2,563	738
Inkster	1977	54	9,369	2,563	575	296
	1982	68	12,046	4,303	1,052	447
Ionia	1977	35	3,338	739	174	155
	1982	57	9,368	3,587	915	381
Iron Mountain	1977	62	8,642	2,625	685	406
	1982	95	17,096	5,412	1,521	527
Iron River	1977	17	1,016	191	49	51
	1982	--	--	--	--	--
Ironwood	1977	44	3,281	951	202	128
	1982	70	10,709	3,928	976	420
Ishpeming	1977	27	2,854	890	209	152
	1982	51	9,807	4,332	1,085	328
Ithaca	1977	9	954	154	42	28
	1982	21	2,486	901	180	67
Jackson	1977	195	88,778	42,402	8,936	3,246
	1982	379	169,716	75,103	17,343	4,172
Kalamazoo	1977	418	100,819	33,755	7,615	3,938
	1982	667	204,346	92,275	22,685	6,132
Keego Harbor	1977	14	1,061	290	59	38
	1982	21	2,889	1,170	299	102
Kentwood	1977	66	9,631	3,299	282	507
	1982	163	83,062	34,250	7,761	2,784
Kingsford	1977	8	223	55	19	13
	1982	26	4,953	1,797	508	206
Lake Orion	1977	26	2,363	625	137	103
	1982	33	4,030	1,409	291	123
L'Anse	1977	10	468	74	18	14
	1982	17	2,058	893	270	102
Lansing	1977	536	126,647	45,385	10,059	4,955
	1982	852	290,723	119,545	29,378	8,021
Lapeer	1977	42	4,039	1,416	320	163
	1982	96	18,442	7,837	1,847	526
Lathrup Village	1977	106	32,282	16,389	3,589	1,059
	1982	120	37,945	13,258	2,979	1,458
Laurium	1977	12	453	138	32	35
	1982	12	1,249	413	91	49
Lincoln Park	1977	128	22,683	7,902	1,724	899
	1982	219	62,116	25,323	5,821	1,648

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Livonia	1977	331	104,785	32,165	6,393	3,102
	1982	731	276,637	104,129	23,929	7,527
Lowell	1977	13	912	295	74	44
	1982	23	4,418	1,516	404	117
Ludington	1977	56	4,359	1,159	269	190
	1982	92	13,447	4,913	1,221	431
Madison Hgts.	1977	129	54,320	26,239	5,790	2,146
	1982	238	133,294	58,991	14,103	2,868
Manistee	1977	41	4,964	1,314	312	216
	1982	76	10,586	3,830	895	394
Manistique	1977	36	2,867	567	104	81
	1982	35	5,639	1,702	413	165
Marine City	1977	18	1,150	351	67	60
	1982	29	4,377	1,406	321	116
Marquette	1977	88	11,854	3,928	867	604
	1982	226	45,447	18,762	4,934	1,274
Marysville	1977	15	2,649	619	209	173
	1982	20	2,960	950	225	106
Marshall	1977	34	2,974	965	231	152
	1982	67	10,873	3,881	902	394
Mason	1977	39	6,283	1,620	303	171
	1982	53	7,109	2,443	598	203
Melvindale	1977	42	20,867	4,877	812	273
	1982	39	16,033	4,826	1,109	238
Menominee	1977	38	4,914	3,926	401	344
	1982	60	9,017	2,919	672	319
Midland	1977	128	26,434	9,742	2,126	1,251
	1982	286	69,256	27,868	6,540	2,080
Milan	1977	14	1,113	350	87	51
	1982	16	2,299	1,015	241	83
Milford	1977	17	2,059	511	121	105
	1982	52	6,152	2,303	571	229
Monroe	1977	94	21,832	5,759	1,258	765
	1982	217	62,171	21,401	5,114	1,929
Mount Clemens	1977	166	23,397	8,791	2,057	958
	1982	320	76,052	32,908	8,096	1,843
Mount Morris	1977	22	1,891	495	114	90
	1982	31	2,510	556	132	91
Mount Pleasant	1977	87	12,612	4,085	941	534
	1982	171	40,856	15,778	3,686	1,218
Munising	1977	17	871	145	36	33
	1982	23	4,031	1,091	253	159
Muskegon	1977	147	23,627	8,208	1,954	916
	1982	342	94,242	36,935	8,686	2,293
Muskegon Hgts.	1977	37	6,932	1,836	452	281
	1982	62	15,619	5,437	1,211	443
Negaunee	1977	21	1,876	367	93	46
	1982	16	3,525	1,036	236	67
New Baltimore	1977	15	1,967	424	118	76
	1982	37	7,825	3,000	645	225
New Buffalo	1977	8	940	151	36	23
	1982	13	2,939	1,219	101	41
Niles	1977	75	8,576	2,667	631	554
	1982	126	21,836	7,702	2,107	847
North Muskegon	1977	17	2,213	783	193	142
	1982	35	4,630	2,010	469	191
Northville	1977	40	12,758	3,104	909	463
	1982	80	23,118	6,901	1,758	596

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Norton Shores	1977	51	9,706	2,314	535	306
	1982	79	18,796	6,493	1,562	505
Norway	1977	6	407	83	24	16
	1982	17	1,979	446	125	61
Novi	1977	41	16,563	5,795	984	308
	1982	100	30,254	11,849	2,731	803
Oak Park	1977	136	65,948	27,020	5,915	2,699
	1982	216	113,184	42,714	10,654	3,310
Otsego	1977	12	638	210	51	59
	1982	19	2,058	742	173	66
Owosso	1977	74	8,581	2,735	644	358
	1982	133	25,201	10,023	2,452	679
Oxford	1977	22	2,332	796	208	112
	1982	22	3,676	1,358	358	104
Paw Paw	1977	32	3,237	949	219	138
	1982	47	6,025	2,239	471	213
Petoskey	1977	76	8,935	2,754	624	337
	1982	118	37,478	17,060	3,433	930
Plainwell	1977	23	2,910	819	167	125
	1982	31	5,136	2,437	570	235
Pleasant Ridge	1977	7	396	154	36	30
	1982	21	2,554	1,099	271	72
Plymouth	1977	77	16,504	5,680	1,255	729
	1982	156	50,762	14,931	3,665	1,194
Pontiac	1977	201	45,791	16,268	3,763	1,418
	1982	372	111,926	55,385	14,355	3,191
Portage	1977	101	18,439	6,105	1,350	316
	1982	169	46,604	18,031	3,949	1,657
Port Huron	1977	147	20,516	6,806	1,640	935
	1982	279	62,828	26,059	6,668	1,820
Portland	1977	11	687	206	38	26
	1982	24	2,291	707	157	83
Richmond	1977	18	1,724	366	94	67
	1982	29	5,343	2,005	439	242
River Rouge	1977	25	4,284	1,596	355	133
	1982	35	6,992	2,747	646	165
Riverview	1977	30	12,381	4,048	992	275
	1982	56	26,127	10,267	2,521	841
Rochester	1977	55	8,706	2,853	573	318
	1982	161	34,565	14,761	3,724	942
Rockford	1977	--	--	--	--	--
	1982	34	4,502	1,237	294	150
Rockwood	1977	9	315	46	14	10
	1982	6	542	168	49	13
Rogers City	1977	21	1,109	212	53	36
	1982	26	2,583	952	207	82
Romeo	1977	25	2,144	568	125	68
	1982	43	7,152	2,873	683	269
Romulus	1977	72	28,817	8,160	1,653	891
	1982	91	75,162	19,479	4,525	1,548
Roosevelt Park	1977	14	1,709	461	111	104
	1982	36	7,259	3,209	737	344
Roseville	1977	157	38,086	13,691	345	1,406
	1982	242	63,567	22,348	5,341	1,981
Royal Oak	1977	286	52,996	20,175	4,540	2,008
	1982	463	115,938	47,794	11,777	2,844
Saginaw	1977	278	50,048	17,941	4,236	2,065
	1982	440	129,293	50,281	11,434	3,486

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

City	Year	Establishments with payroll				
				Payroll ($1,000)		
		Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
St. Clair	1977	19	1,208	316	86	57
	1982	45	8,550	2,816	668	273
St. Clair Shores	1977	240	32,780	11,727	2,761	1,398
	1982	414	90,320	39,755	9,343	2,903
St. Ignace	1977	34	2,831	515	100	84
	1982	37	4,637	1,216	214	126
St. Johns	1977	25	1,728	466	110	75
	1982	63	8,190	3,252	819	285
St. Joseph	1977	90	17,026	7,209	1,680	1,019
	1982	192	48,619	20,691	4,939	1,629
St. Louis	1977	17	1,448	464	137	51
	1982	27	4,854	1,698	429	212
Saline	1977	15	1,024	226	57	38
	1982	40	6,693	1,915	439	167
Sault Ste. Marie	1977	88	8,461	2,536	527	386
	1982	107	13,734	4,731	1,091	482
Southfield	1977	1,015	401,632	149,669	33,790	13,696
	1982	2,061	1,090,452	452,947	110,856	25,910
Southgate	1977	75	32,958	13,199	2,984	943
	1982	135	42,966	17,613	4,429	1,038
South Haven	1977	31	8,334	1,067	221	113
	1982	51	7,028	2,534	591	271
South Lyon	1977	23	1,674	421	94	67
	1982	41	4,578	1,560	318	131
Sparta	1977	20	1,303	302	72	60
	1982	26	2,600	646	157	91
Springfield	1977	13	2,212	620	134	74
	1982	14	3,612	1,166	246	108
Springlake	1977	28	4,687	1,392	292	230
	1982	39	7,627	2,337	517	262
Sterling Heights	1977	112	21,988	6,836	1,508	822
	1982	290	102,059	40,532	9,499	2,630
Sturgis	1977	54	6,073	1,795	407	279
	1982	83	13,480	4,387	1,033	441
Swartz Creek	1977	17	2,106	567	127	87
	1982	18	3,550	1,264	323	93
Taylor	1977	126	34,928	10,548	1,938	1,003
	1982	190	70,419	25,139	6,086	1,754
Tecumseh	1977	25	2,465	540	121	71
	1982	59	7,213	2,308	552	184
Three Rivers	1977	38	4,415	1,172	262	167
	1982	64	15,061	5,850	1,442	658
Traverse City	1977	180	29,187	9,555	2,148	1,288
	1982	421	105,371	38,252	8,723	2,643
Trenton	1977	47	5,937	2,169	512	289
	1982	139	35,187	15,568	3,995	916
Troy	1977	414	285,692	88,346	19,839	6,400
	1982	876	470,616	210,752	50,057	9,968
Utica	1977	50	6,004	1,680	411	191
	1982	82	12,462	5,130	1,383	374
Vassar	1977	10	735	189	44	30
	1982	24	3,092	1,163	256	117
Wakefield	1977	4	(D)	(D)	(D)	(D)
	1982	6	644	108	32	25
Walker	1977	39	7,080	1,981	501	297
	1982	73	25,204	9,105	2,042	869

TABLE XXIII-5. SELECTED DATA FOR SELECTED SERVICE ESTABLISHMENTS IN MICHIGAN CITIES AND VILLAGES OF 2,500 INHABITANTS OR MORE: 1977 AND 1982 (cont.)

		Establishments with payroll				
				Payroll ($1,000)		
City	Year	Number	Receipts ($1,000)	Entire year	First quarter	Paid employees 12 March[a]
Walled Lake	1977	9	(D)	(D)	(D)	(D)
	1982	46	7,481	3,306	830	196
Warren	1977	438	128,512	50,827	11,224	4,669
	1982	812	323,756	154,456	37,274	8,283
Wayne	1977	68	17,395	5,972	1,359	609
	1982	72	21,332	8,873	2,239	752
Westland	1977	143	19,750	6,211	1,412	787
	1982	232	55,281	22,479	5,341	1,821
Whitehall	1977	14	1,097	273	71	63
	1982	26	5,450	2,366	528	260
Williamston	1977	39	6,283	1,620	303	171
	1982	23	4,334	1,169	311	105
Wixom	1977	9	(D)	(D)	(D)	(D)
	1982	16	14,230	5,508	1,327	273
Woodhaven	1977	8	2,949	875	211	145
	1982	32	9,629	4,124	990	386
Wolverine Lake	1977	n.a.	n.a.	n.a.	n.a.	n.a.
	1982	6	1,098	486	107	33
Wyandotte	1977	103	11,360	3,719	857	536
	1982	141	30,985	14,123	3,605	1,004
Wyoming	1977	178	39,933	12,134	2,992	1,585
	1982	271	95,236	32,880	8,066	3,350
Ypsilanti	1977	89	13,446	5,476	1,292	565
	1982	178	43,454	19,808	4,684	1,428
Zeeland	1977	23	2,277	662	164	120
	1982	49	8,632	3,048	791	276

SOURCE: Bureau of the Census, *1977 Census of Selected Service Industries, Area Series, Michigan* (Washington, D.C.: 1979), SC77-A-23, Table 5; and Bureau of the Census, *1982 Census of Selected Service Industries, Area Series, Michigan* (Washington, D.C.: 1985), SC82-A-23, Table 8.

a. Week including 12 March.

(D): Withheld to avoid disclosing data for individual companies.

n.a.: Data not available.

TABLE XXIII-6. RANKING OF MICHIGAN COUNTIES ACCORDING TO EARNINGS IN SERVICE INDUSTRY ESTABLISHMENTS AS A PERCENTAGE OF TOTAL LABOR AND PROPRIETORS' EARNINGS: 1984

	Percentage			Percentage	
County	1974	1984	County	1974	1984
Emmet	28.13	37.24	Macomb	9.86	13.44
Crawford	23.03	31.13	Delta	11.24	13.28
Oakland	20.00	26.75	Oscoda	9.88	13.23
Leelanau	18.99	25.59	Oceana	9.24	12.89
Gogebic	12.90	23.11	Roscommon	10.55	12.80
Keweenaw	(D)	22.29	Monroe	10.38	12.57
Grand Traverse	20.38	20.91	Mecosta	9.21	12.48
Arenac	11.87	20.80	Huron	9.58	12.46
Otsego	16.26	20.67	Mason	10.14	12.40
Clare	15.33	20.08	Sanilac	7.97	12.37
Kalamazoo	13.95	19.43	Montmorency	4.82	12.31
Lake	30.93	19.26	Alcona	12.49	12.25
Mackinac	18.44	18.11	Genesee	10.79	11.90
Bay	12.97	18.05	Montcalm	10.36	11.78
Kent	14.70	17.94	Iron	(D)	11.76
Wexford	14.75	17.87	Cheboygan	13.33	11.53
Wayne	13.43	17.81	Van Buren	8.76	11.40
Marquette	10.78	17.34	Ogemaw	12.73	10.96
Houghton	14.30	17.31	Lapeer	8.79	10.87
Isabella	11.64	17.25	Dickinson	(D)	10.56
Washtenaw	12.88	16.64	Clinton	7.94	10.38
Eaton	11.30	16.60	Allegan	9.27	10.36
Livingston	11.59	16.43	Missaukee	8.39	10.22
Gladwin	13.37	16.15	Alpena	9.34	10.06
Ottawa	11.65	16.06	Tuscola	6.74	9.96
Baraga	14.88	15.95	Menominee	7.42	9.92
Muskegon	11.69	15.94	Hillsdale	8.58	9.22
St. Clair	12.98	15.66	Alger	9.93	9.12
Ingham	14.26	15.65	Manistee	8.96	9.05
Berrien	11.30	15.47	Iosco	6.35	8.17
Gratiot	12.05	15.40	Kalkaska	7.71	7.98
Calhoun	12.30	15.24	Branch	7.11	7.45
Charlevoix	13.41	15.03	Ionia	7.32	7.45
Cass	8.85	14.71	St. Joseph	6.76	7.15
Benzie	(D)	14.63	Luce	(D)	6.41
Saginaw	11.05	14.50	Osceola	5.54	6.40
Lenawee	11.48	14.42	Jackson	14.26	(D)
Shiawassee	11.88	14.35	Ontonagon	2.41	(D)
Chippewa	6.75	14.15	Presque Isle	(D)	(D)
Newaygo	11.40	14.09	Schoolcraft	9.10	(D)
Midland	8.72	13.95			
Antrim	(D)	13.89	Michigan	13.26	17.52
Barry	9.49	13.66	United States	15.60	20.28

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

TABLE XXIII-7. RANKING OF MICHIGAN COUNTIES ACCORDING TO PERCENTAGE CHANGE IN LABOR AND PROPRIETORS' EARNINGS IN SERVICE INDUSTRY ESTABLISHMENTS: 1983-1984

	Percentage change			Percentage change	
County	1974-1984	1983-1984	County	1974-1984	1983-1984
Ottawa	284	41	Ionia	103	9
Menominee	190	38	Kalamazoo	221	9
Cass	255	35	Branch	99	8
Kalkaska	301	25	Dickinson	(D)	8
Baraga	77	25	St. Clair	152	8
Keweenaw	(D)	23	Wexford	193	8
Otsego	261	20	Mackinac	102	8
Newaygo	162	18	Shiawassee	114	8
Missaukee	122	18	Cheboygan	71	8
Alger	72	18	Gogebic	163	8
Mecosta	178	16	Tuscola	125	8
Antrim	(D)	16	Benzie	(D)	7
Eaton	209	15	Iosco	139	7
Montmorency	298	14	Calhoun	119	7
Chippewa	159	14	Houghton	151	7
Oakland	258	14	Washtenaw	241	7
Barry	175	13	Mason	128	7
Macomb	185	13	Iron	(D)	7
Alcona	118	13	Leelanau	86	7
Muskegon	157	13	Wayne	110	6
Osceola	120	13	Emmet	185	6
Sanilac	141	12	St. Joseph	127	6
Oceana	133	12	Oscoda	109	6
Midland	225	12	Hillsdale	118	6
Lake	-2	12	Huron	110	5
Roscommon	174	11	Clinton	183	5
Berrien	118	11	Crawford	193	5
Kent	190	11	Grand Traverse	199	4
Genesee	152	10	Monroe	142	4
Marquette	219	10	Gladwin	155	3
Livingston	289	10	Alpena	95	3
Saginaw	155	10	Delta	126	2
Montcalm	144	10	Bay	140	2
Manistee	108	10	Arenac	207	1
Lapeer	156	10	Luce	(D)	0
Isabella	228	10	Ogemaw	88	-6
Ingham	171	10	Jackson	(D)	(D)
Allegan	147	10	Ontonagon	(D)	(D)
Lenawee	111	9	Presque Isle	(D)	(D)
Van Buren	124	9	Schoolcraft	(D)	(D)
Clare	186	9			
Gratiot	101	9	Michigan	163	10
Charlevoix	130	9	United States	210	12

SOURCE: Bureau of Economic Analysis, Regional Economics Information System.

XXIV. INTERNATIONAL TRADE

The first Survey of the Origin of Exports by Manufacturing Establishments was organized in response to public and congressional requests for information on the geographic source of manufactured goods sold to customers in other countries. The survey has been repeated at three-year intervals since the first one, for 1960, was completed.

The Bureau of the Census sends copies of the reporting form to more than 20,000 manufacturing establishments with 100 or more employees. Establishments with exports valued at $25,000 or more, f.o.b. plant, are asked to report their exports. These replies are the basis for the geographic allocation of reported export shipments by the manufacturers themselves.

Estimated values of exports, f.o.b. producing plant, for each state or Standard Metropolitan Statistical Area represent the sum of reported exports and exports unknown to the manufacturer; for example, exports handled through a wholesaler. The latter figures are calculated on the basis of the geographical distribution of total manufacturing employment, since there is no survey of middlemen to make that determination.

Other foreign trade statistics are compiled by the Bureau of Customs, U.S. Department of Commerce. These figures represent the flow through Michigan and other states.

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XXV. OTHER ENTERPRISE STATISTICS

This chapter includes material that cannot easily be categorized within the other chapters relating to business in Michigan. Statistics on patents and on research and development activities of business are collected and publishes by various agencies of the federal government.

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TABLE XXV-1. NUMBER, BUSINESS RECEIPTS, PAYROLLS, DEPRECIATION, AND NET PROFITS OF NONFARM PROPRIETORSHIPS IN MICHIGAN AND THE UNITED STATES: 1966-1981

		Thousands of dollars			
Year	Number	Business receipts	Payrolls	Depreciation	Net profit
			Michigan		
1966	215,769	7,632,329	865,609	193,124	1,160,758
1967	214,644	8,221,935	996,612	191,016	1,264,783
1968	219,172	8,203,156	1,038,499	209,713	1,318,421
1969	229,493	8,261,634	1,007,738	n.a.	1,325,899
1970	221,780	7,953,693	939,301	n.a.	1,232,920
1971	241,718	8,245,805	955,840	n.a.	1,240,018
1972	246,562	8,748,695	1,018,386	239,825	1,372,904
1973	257,408	9,362,591	1,114,025	274,870	1,542,548
1974	261,798	9,893,119	1,076,543	288,916	1,458,146
1975	264,716	9,892,274	1,090,173	303,934	1,418,023
1976	275,597	10,392,873	1,087,828	317,160	1,503,054
1977	280,050	11,423,835	1,187,609	n.a.	1,738,164
1978	287,457	12,311,968	1,289,306	n.a.	1,917,956
1978[a]	358,584	13,497,783	1,382,261	n.a.	1,931,675
1979[a]	391,562	14,576,572	1,398,430	722,638	1,904,486
1980[a]	398,585	15,875,127	1,273,803	723,459	1,840,114
1981	316,298	13,666,018	n.a.	206,109	1,592,149
			United States		
1966	5,901,571	171,643,054	19,653,340	4,481,983	25,504,318
1967	5,925,935	175,660,827	20,138,994	4,677,045	26,621,637
1968	5,998,610	184,617,439	21,229,554	4,779,256	28,299,606
1969	6,155,374	193,894,487	22,364,904	n.a.	29,739,427
1970	6,313,259	195,792,289	22,362,930	n.a.	30,022,920
1971	6,612,225	211,193,510	23,513,831	n.a.	31,516,479
1972	6,957,436	224,128,730	24,466,884	6,071,144	33,911,098
1973	7,445,153	248,785,404	26,924,663	6,862,388	38,058,018
1974	7,688,795	264,802,830	27,391,496	7,470,131	38,980,898
1975	7,759,576	273,954,741	29,018,942	7,958,143	39,636,453
1976	8,139,962	301,446,844	31,494,376	8,536,390	44,424,787
1977	8,413,806	324,492,975	32,533,568	9,541,552	49,436,518
1978	8,908,289	361,630,253	36,605,195	10,998,879	53,481,341
1978[a]	12,017,953	443,354,851	40,576,849	21,206,674	59,027,286
1979[a]	12,329,982	487,807,384	42,366,149	24,170,602	60,758,789
1980[a]	12,701,597	505,884,882	41,985,964	25,796,183	55,449,987
1981	9,584,790	427,063,055	n.a.	15,854,513	53,071,628

SOURCE: Internal Revenue Service, Statistics of Income, Business Income Tax Returns, Sole Proprietorships and Partnerships, (Washington, D.C.: annually), Table 4 and 12.

a. Includes agriculture. State data on nonfarm proprietorships no longer are listed as a separate item.

n.a.: not available.

TABLE XXV-2. NUMBER, BUSINESS RECEIPTS, PAYROLLS, DEPRECIATION, AND NET PROFITS OF PARTNERSHIPS IN MICHIGAN AND THE UNITED STATES: 1968-1982

		Thousands of dollars			
Year	Number	Business receipts	Payrolls	Depreciation	Net profit
			Michigan		
1968	31,721	3,065,198	410,656	111,077	447,845
1969	31,374	3,204,384	411,487	n.a.	396,754
1970	31,859	2,802,157	354,031	n.a.	252,589
1971	n.a.	n.a.	n.a.	n.a.	n.a.
1972	33,413	3,269,015	370,382	192,886	273,833
1973	34,408	3,856,285	455,088	241,160	298,961
1974	36,592	4,302,715	490,288	266,340	249,977
1975	35,537	4,289,002	476,074	324,096	253,272
1976	36,013	4,285,667	459,319	326,919	257,583
1977	37,959	4,702,704	497,388	n.a.	363,565
1978	40,252	5,921,623	625,154	n.a.	425,555
1978[a]	42,042	6,211,342	646,204	n.a.	460,884
1979[a]	42,590	6,978,504	727,995	587,193	589,339
1980[a]	46,571	6,979,474	627,592	695,580	475,967
1981[a]	50,071	4,701,081	492,494	n.a.	277,932
1982[a]	54,009	4,768,012	507,782	n.a.	112,449
			United States		
1968	795,495	75,213,174	10,617,664	2,903,298	10,756,354
1969	800,391	80,009,120	11,148,745	n.a.	9,788,097
1970	811,845	82,982,213	11,558,441	n.a.	9,122,597
1971	n.a.	n.a.	n.a.	n.a.	n.a.
1972	876,150	95,435,014	12,587,899	5,296,742	8,889,094
1973	915,994	109,476,011	13,595,004	6,382,308	7,929,218
1974	952,175	125,780,194	14,961,016	7,785,440	7,973,323
1975	964,052	134,511,262	16,179,238	9,197,292	7,000,900
1976	974,763	144,822,904	17,840,359	9,889,016	9,450,489
1977	1,048,676	164,926,675	19,041,205	11,296,382	12,867,895
1978	1,125,776	197,114,117	21,241,964	13,281,912	13,347,071
1978[a]	1,234,799	214,912,044	22,272,361	14,519,760	14,418,042
1979[a]	1,299,593	253,000,742	26,092,084	17,662,667	15,205,908
1980[a]	1,379,654	285,967,243	29,332,070	21,576,190	8,248,656
1981[a]	1,460,502	262,497,878	27,696,918	n.a.	-2,734,897
1982[a]	1,514,214	284,037,048	30,373,162	n.a.	-7,314,587

SOURCE: Internal Revenue Service, 1978-1982 Partnership Returns, Washington, D.C.: 1985, Tables 2.4, 3.4, 4.4, and 5.4; and similar documents for previous years.

a. Includes agriculture. State data on nonfarm proprietors no longer are listed as a seperate item.

n.a.: not available.

TABLE XXIV-1. VALUE OF EXPORT SHIPMENTS BY MANUFACTURING PLANTS IN MICHIGAN AND THE UNITED STATES, BY INDUSTRY GROUP, F.O.B. PRODUCING PLANT: 1972, 1977, 1981, AND 1983

(In millions of dollars)

	Michigan				United States			
Industry group	1972	1977	1981	1983	1972	1977	1981	1983
Food and kindred products	61.1	153.4	174.0	184.0	3,046.2	6,782.2	12,142.2	10,471.4
Apparel, other textile prod.	n.a.	78.7	212.1	198.2	n.a.	756.6	1,340.2	886.9
Chemicals and allied products	180.3	404.5	576.9	528.2	3,756.8	9,466.1	19,331.5	17,400.3
Paper & allied products	16.8	29.3	16.4	64.0	988.4	2,099.5	4,108.2	3,572.3
Rubber and plastics products	35.3	62.1	81.0	92.9	519.3	1,410.8	2,677.9	2,359.6
Stone, clay, and glass products	48.9	75.9	99.2	105.7	408.7	997.0	1,806.0	1,555.5
Primary metal industries	126.1	196.4	176.9	121.9	1,490.2	2,791.6	6,163.2	3,712.9
Fabricated metal products	312.2	514.3	837.3	884.7	1,429.3	4,125.2	7,057.9	6,031.7
Nonelectrical machinery	464.2	985.5	1,831.6	1,205.5	7,823.6	19,142.1	38,429.8	29,040.4
Electrical equipment and supplies	131.2	188.3	325.8	279.5	3,295.8	8,060.9	16,494.3	15,841.5
Transportation equipment	1,736.1	4,107.1	5,625.4	6,428.8	7,841.7	17,711.9	31,166.1	28,187.0
Instruments and related products	27.8	63.4	121.5	121.2	1,530.9	4,235.1	8,004.4	7,810.3
All other	382.4	78.5	196.9	151.7	4,477.1	8,216.9	15,561.4	15,447.6
TOTAL	3,522.2	6,937.4	10,275.0	10,391.0	36,608.0	85,795.9	164,283.1	142,307.3

SOURCE: Bureau of the Census, *Current Industrial Reports*, Series MA161, 1972 (Washington, D.C.: periodically), Table 2; and *1977 Census of Manufacturers, Origin of Exports of Manufactured Products* (Washington, D.C.: 1981); Bureau of the Census, *1983 Annual Survey of Manufacturers, Origin of Exports of Manufactured Products* M83(AS)-5, Table 4 and 5.

TABLE XXIV-2. FACTORY SHIPMENTS AND EMPLOYMENT RELATED TO MANUFACTURED EXPORTS, BY MAJOR INDUSTRY GROUP, MICHIGAN AND THE UNITED STATES: 1983

Industry group or products	Value of MI mfg. shipments (Millions of dollars)			Percentage[a]		MI mfg. employment (thousands)			Percentage[b]	
	Direct exports	Supporting exports	Total exports	Michigan	United States	Direct exports	Supporting exports	Total exports	Michigan	United States
Food and kindred	184.0	121.1	305.1	3.7	5.0	0.7	0.6	1.3	3.2	4.0
Textile mill	--	--	--	--	7.7	--	--	--	--	6.9
Apparel, other textile	198.2	53.8	252.0	12.2	2.6	1.3	0.4	1.7	9.2	1.7
Lumber and wood	24.1	41.3	65.4	7.8	9.2	0.2	0.5	0.7	6.3	7.8
Furniture and fixtures	66.1	7.4	73.5	3.7	2.2	0.5	0.1	0.6	2.9	2.0
Paper products	64.0	171.5	235.5	8.4	10.1	0.4	1.3	1.7	8.4	9.3
Printing and publishing	17.9	27.7	45.6	1.9	2.5	0.1	0.4	0.5	1.4	2.1
Chemical and allied	528.2	352.9	881.1	16.9	17.5	2.7	2.0	4.7	15.7	16.4
Petroleum and coal	13.7	56.3	70.0	4.2	5.8	(Z)	0.1	0.1	5.5	6.0
Rubber, misc. plastic	92.9	177.7	270.6	10.9	11.0	0.9	2.3	3.2	10.0	10.6
Leather and leather products	--	--	--	--	5.5	--	--	--	--	3.3
Stone, clay, glass	105.7	74.4	180.1	11.5	7.9	1.0	0.7	1.7	10.6	8.0
Primary metal	121.9	937.3	1,059.2	17.9	18.2	1.0	7.6	8.6	17.7	18.3
Fabricated metal	884.7	871.1	1,755.8	16.7	11.0	7.4	8.6	16.0	15.0	10.7
Machinery, exc.electric	1,205.5	598.8	1,804.3	19.3	20.9	11.0	7.6	18.6	16.4	19.7
Electric, electronic equipment	279.5	94.0	373.5	12.6	14.2	2.0	1.2	3.2	10.5	14.5
Transportation equip.	6,428.8	1,296.4	7,725.2	13.9	14.3	26.4	5.3	31.7	14.1	14.0
Instruments and related	121.1	21.8	143.0	15.7	16.8	1.4	0.3	1.7	13.8	17.4
Misc. mfg. industries	29.9	5.6	35.5	7.0	8.8	0.3	0.1	0.4	5.2	7.5
Admin. & auxiliary	(X)	(X)	(X)	(X)	--	(X)	14.2	14.2	13.7	12.1
Total	10,391.0	4,917.6	15,308.6	13.3	11.3	58.0	53.4	111.4	12.7	10.8

SOURCE: U.S. Department of Commerce, Bureau of the Census, 1983 Annual Survey of Manufactures Origin of Exports of of Manufactured Products 1983 (AS)-5, Tables 5 and 4.

a. Total export related shipments as a percentage of total manufacturers' shipments.

b. Total export related employment as a percentage of total manufacturing employment.

(Z). Less than one-half of the unit of measurement shown.

(X): not applicable.

TABLE XXIV-3. VALUE OF IMPORTS AND EXPORTS PASSED THROUGH THE DETROIT CUSTOMS DISTRICT AND THE UNITED STATES, VESSEL AND AIR SHIPMENTS AND TOTAL: 1976-1985

(In millions of dollars)

Year	Total		Vessel		Air	
	Detroit	United States	Detroit	United States	Detroit	United States
			General imports			
1976[a]	10,280.5	120,677.4	705.0	80,758.7	74.7	10,847.0
1977[a]	11,483.1	146,816.7	999.8	100,854.2	72.6	12,491.4
1978	12,728.1	173,249.9	805.4	115,499.0	81.0	17,923.1
1979	13,748.8	207,131.1	881.5	140,924.1	110.2	22,168.7
1980	12,721.6	245,261.9	628.6	165,147.5	136.3	28,044.2
1981	15,334.8	260,981.8	878.9	177,585.6	138.0	29,968.2
1982	16,313.5	243,951.9	687.1	155,929.7	132.7	30,932.5
1983	19,931.9	258,047.8	790.3	156,260.8	129.8	37,784.2
1984	25,942.1	325,725.7	1,143.3	192,990.9	196.0	52,334.0
1985	27,520.8	345,275.5	1,349.5	208,388.7	245.7	51,256.4
			Exports of domestic and foreign merchandise			
1976[a]	10,889.1	114,997.2	283.9	64,868.8	184.1	16,905.5
1977[a]	12,115.5	120,163.2	354.2	65,596.5	212.1	19,660.3
1978	13,366.2	143,662.7	578.1	77,530.8	229.7	25,896.7
1979	14,210.1	181,801.6	789.0	97,788.4	171.3	36,660.6
1980	14,633.9	220,704.9	785.1	119,085.8	181.4	45,405.0
1981	17,111.4	233,739.1	601.4	123,771.3	159.1	46,390.9
1982	15,075.8	212,274.6	407.6	116,107.3	142.9	44,584.0
1983	17,865.6	200,537.6	355.0	100,829.7	165.5	45,903.8
1984	22,571.6	217,888.0	306.4	101,970.9	196.8	53,410.2
1985	22,824.1	213,146.1	285.9	91,733.1	212.9	52,327.2

SOURCE: Bureau of the Census, *Highlights of U.S. Export and Import Trade*, (Washington, D.C.: monthly).

[a] Transaction value of imports at the foreign port of exportation, including costs to place it alongside the ship, or f.a.s. (free alongside ship) value. For prior years the figures and customs values, which generally represented the value in the foreign country for collection of import duties.

TABLE XXIV-4. WEIGHT OF WATERBORNE IMPORTS AND EXPORTS PASSED THROUGH THE DETROIT CUSTOMS DISTRICT BY PORT: 1980-1984

(Shipping weights in millions of pounds)

	Imports					Exports				
Port	1980	1981	1982	1983	1984^{p}	1980	1981	1982	1983	1984^{p}
Detroit	2,491	4,755	2,541	3,313	5,117	1,337	777	1,241	999	1,030
Port Huron	641	416	372	111	59	707	522	93	66	189
Sault Ste. Marie	3	27	100	166	10	505	326	210	152	178
Saginaw-Bay City	640	611	627	643	660	693	589	422	120	266
Muskegon	158	36	145	21	65	0	0	0	3	96
Grand Haven	159	46	94	86	76	0	0	0	83	113
Rogers City	48	47	57	20	0	2,038	2,608	1,934	2,280	1,390
Detour	0	0	45	0	0	583	659	269	346	418
Escanaba	3	0	0	4	0	176	0	90	125	268
Marquette	5	0	0	0	0	0	804	0	54	498
Mackinac Island	0	0	0	16	27	0	0	0	0	18
Presque Isle	0	57	175	80	0	7,482	5,595	2,605	4,257	3,508
Alpena	32	0	84	57	88	1,779	2,007	993	1,353	1,635
Ferrysburg	38	119	0	119	0	0	0	0	573	714
TOTAL	4,218	6,115	4,409	4,637	6,324	15,319	13,387	7,856	10,413	10,521

SOURCE: Bureau of the Census, Waterborne Exports and General Imports, (Washington, D.C.: monthly and annually), Tables I-1 and E-1.

p: preliminary.

TABLE XXV-4. EXPENDITURES FOR INDUSTRIAL RESEARCH AND DEVELOPMENT IN MICHIGAN AND THE UNITED STATES, BY SOURCE OF FUNDING: 1963-1977, 1979 AND 1981

(In millions of dollars)

Date	Federal funds		Mich. as a % of U.S.	Company funds		Mich. as a % of U.S.
	Michigan	United States		Michigan	United States	
1963	65	7,270	.89	797	5,360	14.87
1964	65	7,600	.85	835	5,753	14.51
1965	67	7,740	.86	895	6,445	13.89
1966	98	8,287	1.18	977	7,254	13.47
1967	115	8,388	1.39	952	8,032	11.85
1968	98	8,559	1.14	1,086	8,876	12.23
1969	83	8,619	.96	1,228	9,856	12.46
1970	77	7,785	.99	1,171	10,073	11.62
1971	78	7,671	1.02	1,338	10,643	12.57
1972	86	8,090	1.06	1,500	11,347	13.22
1973	56	8,222	.68	1,832	12,699	14.43
1974	78	8,332	.94	1,990	14,038	14.18
1975	114	8,765	1.30	1,858	14,776	12.57
1976	124	9,285	1.33	2,248	17,391	12.93
1977	144	10,545	1.37	2,614	19,362	13.50
1979	n.a.	12,460	n.a.	3,589[a]	25,493	n.a.
1981	n.a.	16,468	n.a.	4,272[a]	35,362	n.a.

SOURCE: National Science Foundation, *Research and Development in Industry*, 1966 through 1975 (Washington, D.C.: annually), NS76-322, Table B-23 (1977), and National Science Foundation, *Basic Research, Applied Research, and Development in Industry, 1964* (Washington, D.C.: 1966), NS66-28, Table 26; and special release.

NOTE: The bulk of expenditures for industrial research and development are for development and made by manufacturing industries.

a. Includes federal funds.

n.a.: Not available.

TABLE XXV-5. NEW INCORPORATIONS IN MICHIGAN: 1970-1985

Year	Profit	Nonprofit	Foreign (out of state)	Total
1970	8,378	1,782	1,054	11,214
1971	8,270	1,993	1,082	11,345
1972	9,202	2,134	1,175	12,511
1973	9,709	1,878	1,093	12,680
1974	9,342	2,106	1,009	12,457
1975	9,996	2,138	926	13,060
1976	11,545	2,080	972	14,597
1977	13,273	2,082	956	16,311
1978	14,538	2,148	1,039	17,725
1979	18,654	2,217	1,062	21,933
1980	16,931	2,503	1,077	20,511
1981	17,139	2,288	1,277	20,704
1982	17,201	2,294	1,300	20,795
1983	18,463	2,613	1,540	22,616
1984	19,474	2,574	1,625	23,673
1985	21,864	2,490	1,719	26,073

SOURCE: Michigan Department of Management and Budget, Economic Report of the Governor, 1982 (Lansing: 1982), Table C-18, and Michigan Department of Commerce, special release.

TABLE XXV-6. U.S. PATENTS ISSUED TO RESIDENTS OF MICHIGAN AND THE UNITED STATES: 1966-1984

Year	Michigan	United States	Year	Michigan	United States
1966	3,675	57,700	1976	2,691	51,808
1967	3,306	54,191	T.Q.	621	11,368
1968	2,968	48,804	1977	2,474	47,292
1969	3,160	53,422	1978	2,373	44,482
1970	2,831	49,821	1979	1,875	34,383
1971	3,386	58,693	1980	2,130	38,134
1972	3,156	54,093	1981	2,457	43,194
1973	3,091	54,690	1982	1,741	33,896
1974	3,215	57,812	1983	1,678	32,872
1975	2,832	49,494	1984	2,062	42,062

SOURCE: Patent and Trademark Office, Commissioner of Patents and Trademarks, Annual Report, Fiscal Year: 1981 (Washington, D.C.: 1982), Table 13, and special release.

NOTE: 1966-1973 are calendar years and do not include reissues; 1974-1975 are fiscal years and include reissues.
T.Q. = transitionary quarter, 1 July 1976 - 30 September 1976.

APPENDIX

The concept of the "standard metropolitan statistical area" has been developed to meet the need for the presentation of statistics. The following excerpts from the U.S. Census of Population: 1960 and U.S. Census of Population 1970 describe the purpose of the SMSAs.

> It has long been recognized that for many types of social and economic analysis it is necessary to consider as a unit the entire population in and around the city whose activities form an integrated social and economic system.... To permit all Federal statistical agencies to utilize the same areas for the publication of general-purpose statistics, the Office of Management and Budget has established 'standard metropolitan statistical areas' (SMSAs).
>
> Except in New England, an SMSA is a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more or 'twin cities' with a combined population of at least 50,000. In addition to the county, or counties, containing such a city or cities, contiguous counties are included in an SMSA if, according to a certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city.
>
> The Bureau of the Census recognizes 243 Standard Metropolitan Statistical Areas (SMSAs) in the United States and four in Puerto Rico, making a total of 247 in the 1970 census. These include the 231 SMSAs as defined and named in the Bureau of the Budget publication, Standard Metropolitan Statistical Areas: 1967, U.S. Government Printing Office, Washington, D.C. 20402. Since 1967, 16 SMSAs have been added, of which two were defined in January 1968 and an additional 14 were defined in February 1971 on the basis of the 1970 census.

Users of this statistical abstract will find that certain tables pertain to areas in Michigan which are SMSAs.

Michigan's Standard Metropolitan Statistical areas for 1940, 1950, 1967, 1971, and 1973 were composed as follows:

MICHIGAN SMSAs, COUNTIES INCLUDED

SMSA	1940[a]	1950	1967	1971	1973
Ann Arbor-Ypsilanti			Washtenaw	Washtenaw	Washtenaw
Battle Creek				Calhoun	Calhoun Barry
Bay City[b]		Bay	Bay	Bay	Bay
Detroit	Macomb Oakland Wayne	Macomb Oakland Wayne	Macomb Oakland Wayne	Macomb Oakland Wayne	Lapeer Livingston Macomb Oakland St. Clair Wayne
Flint	Genesee	Genesee	Genesee	Genesee Lapeer	Genesee Shiawassee

MICHIGAN SMSAs, COUNTIES INCLUDED

SMSA	1940[a]	1950	1967	1971	1973
Grand Rapids	Kent	Kent	Kent	Kent Ottawa	Kent Ottawa
Jackson		Jackson	Jackson	Jackson	Jackson
Kalamazoo-Portage	Kalamazoo	Kalamazoo	Kalamazoo	Kalamazoo	Kalamazoo Van Buren
Lansing-East Lansing	Ingham	Ingham	Ingham Clinton Eaton	Ingham Clinton Eaton	Ingham Ionia Clinton Eaton
Muskegon-Norton Shores-Muskegon Heights			Muskegon	Muskegon	Muskegon
Saginaw[b]	Saginaw		Saginaw	Saginaw	Saginaw

SOURCE: U.S. Bureau of the Census, *U.S. Census of Population: 1950, 1960, 1970 and 1980*; Bureau of the Budget, *Metropolitan Statistical Areas*.

NOTE: Because of changes in designation of individual areas from Metropolitan Areas in 1940 to Standard Metropolitan Areas (SMSAs) for the 1950 census, to Standard Metropolitan Statistical Areas for the 1960 census, and changes in the SMSAs since 1960, the census data presented by SMSAs are not comparable.

a. The designation was changed from Metropolitan Area to Standard Metropolitan Area just prior to the 1950 census. It finally was standardized as Standard Metropolitan Statistical Area in 1959.

b. Saginaw and Bay City were classified in the 1940 census as the Metropolitan Area of Saginaw-Bay City which was composed of Bay and Saginaw counties.

In the early 1980s the Office of Management and Budget again revised the measurement definitions of metropolitan areas for use in the presentation of statistics by agencies of the Federal Government. The term "Standard Metropolitan Statistical Area" was shortened to "Metropolitan Statistical Area" (MSA), and the latter is defined in terms of counties.

Further illumination on "Metropolitan Statistical Areas" is provided in the following passages from the *1980 Census of Population, Supplementary Report Metropolitan Statistical Areas* (released in 1985):

> By current standards, an area qualifies for recognition as an MSA in one of two ways: if there is a city of at least 50,000 with a total metropolitan population of at least 100,000 (75,000 in New England). In addition to the county containing the main city, an MSA also includes additional counties having strong economic and social ties to the central county, determined chiefly by the extent of the Census urbanized area and census data on commuting to work. A metropolitan statistical area may contain more than one city of 50,000 population and may cross State lines.

> If an area has more than one million population and meets certain other specified requirements, it now is termed a "Consolidated Metropolitan Statistical Area" (CSMA), consisting of major components recognized as "Primary Metropolitan Statistical Areas" (PMSAs). Many of these PMSAs were formerly recognized as SMSAs; the majority were also included in a set of "standard consolidated statistical areas" defined by OMB beginning in 1975, each of which consisted of two or more closely associated SMSAs. Metropolitan areas not included in CMSAs are designated simply as Metropolitan Statistical Areas (MSAs)....

As of October 12, 1984 it was estimated that the United States had twenty CMSAs. This set was also further subdivided into seventy-one PMSAs. The only CMSA in Michigan was the Detroit-Ann Arbor CMSA. This was further divided into the Ann Arbor PMSA and the Detroit PMSA. The former was comprised of Washtenaw County and the latter was comprised of Lapeer, Livingston, Macomb, Monroe, Oakland, St. Clair, and Wayne counties.

In addition, for clarification purposes, the Detroit SMSA and the Detroit SMA are equivalent for statistical analysis purposes. After 1980, the Detroit SMSA/MSA again contained Lapeer, Livingston, Macomb, Monroe, Oakland, St. Clair, and Wayne counties. In 1980 and prior years, however, Monroe County was excluded from the Detroit SMSA. It was instead aligned with the Toledo SMSA.

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TABLE XXV-3. NUMBER OF FRANCHISE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES, BY TYPE OF BUSINESS: 1980, 1982, AND 1983

Kind of business	Year	Michigan			United States		
		Company owned	Franchisee owned	Total	Company owned	Franchisee owned	Total
Accounting, credit, collection agencies and general business systems	1980	0	62	62	36	1,953	1,989
	1982	0	81	81	33	2,005	2,038
	1983[a]	59	0	59	32	2,078	2,110
Construction, home improvement, maintenance, & cleaning services	1980	29	355	384	438	10,180	10,618
	1982	31	335	366	568	12,039	12,607
	1983[b]	27	324	351	487	12,361	12,848
Convenience stores	1980	78	134	212	9,661	5,202	14,863
	1982	194	134	328	9,337	4,457	13,794
	1983[c]	173	130	303	8,027	5,721	13,748
Educational products and services	1980	31	22	53	500	1,928	2,428
	1982	39	18	57	544	1,482	2,026
	1983[d]	32	34	56	554	1,512	2,066
Employment services	1980	31	98	129	1,114	2,957	4,071
	1982	31	113	144	1,292	2,747	4,039
	1983[e]	32	107	139	1,336	2,648	3,941
Hotels, motels and campgrounds	1980	25	130	155	964	5,444	6,408
	1982	22	113	135	957	4,867	5,824
	1983[f]	27	110	137	1,064	5,143	6,207
Laundry & dry cleaning services	1980	0	122	122	45	2,855	2,900
	1982	0	126	126	83	2,860	2,943
	1983[g]	0	90	90	94	2,104	2,198
Printing & copying services	1980	1	147	148	131	2,660	2,791
	1982	1	168	169	112	3,290	3,402
	1983[h]	176	2	174	118	3,622	3,740
Real estate	1980	46	890	936	192	16,740	16,932
	1982	56	769	825	171	13,910	14,081
	1983[i]	68	633	701	249	13,618	13,867
Recreation, entertainment & travel	1980	0	48	48	94	2,038	2,132
	1982	0	53	53	117	2,309	2,426
	1983[j]	0	50	50	106	2,485	2,591
Rental services - auto and truck	1980	50	137	187	1,512	4,681	6,193
	1982	44	104	148	1,591	4,323	5,914
	1983[k]	37	172	209	1,566	5,767	7,333

TABLE XXV-3. NUMBER OF FRANCHISE ESTABLISHMENTS IN MICHIGAN AND THE UNITED STATES, BY TYPE OF BUSINESS: 1980, 1982 AND 1983 (cont.)

Kind of business	Year	Michigan			United States		
		Company owned	Franchisee owned	Total	Company owned	Franchisee owned	Total
Rental services equipment	1980	1	46	47	176	1,496	1,672
	1982	0	33	35	200	1,680	1,880
	1983[l]	0	38	38	216	1,684	1,900
Restaurants	1980	766	1,680	2,446	16,082	38,993	55,075
	1982	799	1,719	2,498	18,740	40,919	59,659
	1983[m]	880	1,648	2,528	20,921	41,124	62,045
Retailing - nonfood	1980	291	486	777	10,179	19,648	29,827
	1982	360	516	876	10,164	19,787	29,951
	1983[h]	374	552	926	10,319	19,949	30,268
Retailing - food & other convenience stores	1980	57	240	297	924	11,012	11,936
	1982	100	275	375	1,735	11,318	13,053
	1983[o]	115	295	410	1,942	12,115	14,057

SOURCE: U. S. Department of Commerce, Industry and Trade Administration, *Franchizing in the Economy 1980-1982*, *1982-1984*, and *1983-85*, (Washington, D.C.).

a. Represents 92 percent of total establishments.
b. Represents 73 percent of total establishments.
c. Represents 94 percent of total establishments.
d. Represents 32 percent of total establishments.
e. Represents 95 percent of total establishments.
f. Represents 91 percent of total establishments.
g. Represents 75 percent of total establishments.
h. Represents 98 percent of total establishments.
i. Represents 99 percent of total establishments.
j. Represents 40 percent of total establishments.
k. Represents 68 percent of total establishments.
l. Represents 91 percent of total establishments.
m. Represents 92 percent of total establishments.
n. Represents 79 percent of total establishments.
o. Represents 92 percent of total establishments.

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